# DVR

## Samsung Digital Security Systems

**SAMSUNG TECHWIN**

**SAMSUNG**

# DVR SELECTION

| | SVR-3200 | SVR-1680C | SVR-1660C |
|---|---|---|---|
| |  |  |  |
| OS | Embedded Linux | Embedded Linux | Embedded Linux |
| Display Rate | 960fps(N), 800fps(P) | 480fps(N), 400fps(P) | 480fps(N), 400fps(P) |
| Recording Rate | 480fps@4CIF(N), 400fps@4CIF(P) | 480fps@4CIF(N), 400fps@4CIF(P) | 120fps@4CIF(N), 100fps@4CIF(P) |
| | 960fps@2CIF(N), 800fps@2CIF(P) | 480fps@2CIF(N), 400fps@2CIF(P) | 240fps@2CIF(N), 200fps@2CIF(P) |
| | 960fps@CIF(N), 800fps@CIF(P) | 480fps@CIF(N), 400fps@CIF(P) | 480fps@CIF(N), 400fps@CIF(P) |
| Codec | MPEG-4 | MPEG-4 | MPEG-4 |
| Video Input | 32 Channels | 16 Channels | 16 Channels |
| Max. Resolution | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) |
| Simultaneous MPEG-4/JPEG Streaming | Yes | Yes | Yes |
| Internal HDD | 4 HDDs | 4 HDDs | 4 HDDs |
| External HDD | Up to 2 expansion bay | Up to 2 expansion bay | Up to 2 expansion bay |
| DVD | Yes | Yes | Yes |
| Audio Input / Output | 16 / 1 | 16 / 1 | 16 / 1 |
| Alarm Input / Output | 16 / 4 | 16 / 4 | 16 / 4 |
| Max. Remote Users | 10 Simultaneously | 10 Simultaneously | 10 Simultaneously |
| Network Transport Speed | Up to 16Mbps | Up to 16Mbps | Up to 9Mbps |
| Viewer Application | SVM-S1, SNM-128S/P | SVM-S1, SNM-128S/P | SVM-S1, SNM-128S/P |
| ATM / POS | Yes | Yes | Yes |
| PTZ Control | Yes | Yes | Yes |
| Mouse | Yes | Yes | Yes |

| | SVR-1645 | SVR-960C | SVR-945 |
|---|---|---|---|
| |  |  |  |
| OS | Embedded Linux | Embedded Linux | Embedded Linux |
| Display Rate | 480fps(N), 400fps(P) | 270fps(N), 225fps(P) | 270fps(N), 225fps(P) |
| Recording Rate | 120fps@4CIF(N), 100fps@4CIF(P) | 120fps@4CIF(N), 100fps@4CIF(P) | 120fps@4CIF(N), 100fps@4CIF(P) |
| | 240fps@2CIF(N), 200fps@2CIF(P) | 240fps@2CIF(N), 200fps@2CIF(P) | 240fps@2CIF(N), 200fps@2CIF(P) |
| | 480fps@CIF(N), 400fps@CIF(P) | 270fps@CIF(N), 225fps@CIF(P) | 270fps@CIF(N), 225fps@CIF(P) |
| Codec | MPEG-4 | MPEG-4 | MPEG-4 |
| Video Input | 16 Channels | 9 Channels | 9 Channels |
| Max. Resolution | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) |
| Simultaneous MPEG-4/JPEG Streaming | Yes | Yes | Yes |
| Internal HDD | 2 HDDs | 2 HDDs | 2 HDDs |
| External HDD | 1 expansion bay | 1 expansion bay | 1 expansion bay |
| DVD | Yes | Yes | N/A |
| Audio Input / Output | 16 / 1 | 9 / 1 | 9 / 1 |
| Alarm Input / Output | 16 / 4 | 9 / 4 | 9 / 4 |
| Max. Remote Users | 10 Simultaneously | 10 Simultaneously | 10 Simultaneously |
| Network Transport Speed | Up to 9Mbps | Up to 16Mbps | Up to 9Mbps |
| Viewer Application | SVM-S1, SNM-128S/P | SVM-S1, SNM-128S/P | SVM-S1, SNM-128S/P |
| ATM / POS | Yes | Yes | Yes |
| PTZ Control | Yes | Yes | Yes |
| Mouse | Yes | Yes | Yes |

# DVR SELECTION

| | SVR-940 | SVR-480 | SVR-470 |
|---|---|---|---|
| |  |  |  |
| OS | RTOS | Embedded Linux | RTOS |
| Display Rate | 270fps(N), 225fps(P) | 120fps(N), 100fps(P) | 120fps(N), 100fps(P) |
| Recording Rate | 30fps@4CIF(N), 25fps@4CIF(P) 60fps@2CIF(N), 50fps@2CIF(P) 120fps@CIF(N), 100fps@CIF(P) | 120fps@4CIF(N), 100fps@4CIF(P) 120fps@2CIF(N), 100fps@2CIF(P) 120fps@CIF(N), 100fps@CIF(P) | 30fps@4CIF(N), 25fps@4CIF(P) 120fps@CIF(N), 100fps@CIF(P) |
| Codec | MPEG-4 | MPEG-4 | H.264 |
| Video Input | 9 Channels | 4 Channels | 4 Channels |
| Max. Resolution | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) |
| Simultaneous MPEG-4/JPEG Streaming | N/A | Yes | N/A |
| Internal HDD | 2 HDDs | 2 HDDs | 1 HDD |
| External HDD | N/A | 1 expansion bay | N/A |
| DVD | Yes | Yes | N/A |
| Audio Input / Output | 4/ 1 | 4/ 1 | 4/ 1 |
| Alarm Input / Output | 9 / 4 | 4/ 1 | 4/ 1 |
| Max. Remote Users | 4 Simultaneously | 10 Simultaneously | 2 Simultaneously |
| Network Transport Speed | Up to 16Mbps | Up to 16Mbps | Up to 16Mbps |
| Viewer Application | SVM-S1, SNM-128S/P | SVM-S1, SNM-128S/P | SVM-S1 |
| ATM / POS | Yes | Yes | Yes |
| PTZ Control | Yes | Yes | Yes |
| Mouse | N/A | Yes | N/A |

| | SVR-450 | SVR-440 |
|---|---|---|
| |  |  |
| OS | RTOS | RTOS |
| Display Rate | 20fps(N), 100fps(P) | 120fps(N), 100fps(P) |
| Recording Rate | 30fps@4CIF(N), 25fps@4CIF(P) 120fps@CIF(N), 100fps@CIF(P) | 30fps@4CIF(N), 25fps@4CIF(P) 120fps@CIF(N), 100fps@CIF(P) |
| Codec | MPEG-4 | MPEG-4 |
| Video Input | 4 Channels | 4 Channels |
| Max. Resolution | 704 x 480(N), 704 x 576(P) | 704 x 480(N), 704 x 576(P) |
| Simultaneous MPEG-4/JPEG Streaming | N/A | N/A |
| Internal HDD | 1 HDD | 1 HDD |
| External HDD | N/A | N/A |
| DVD | Yes | N/A |
| Audio Input / Output | 4/ 1 | 4/ 1 |
| Alarm Input / Output | 4/ 1 | 4/ 1 |
| Max. Remote Users | 4 Simultaneously | 4 Simultaneously |
| Network Transport Speed | Up to 16Mbps | Up to 16Mbps |
| Viewer Application | SVM-S1, SNM-128S/P | N/A |
| ATM / POS | Yes | N/A |
| PTZ Control | Yes | N/A |
| Mouse | N/A | N/A |

DVR

# NEW DVR FEATURES

## Redefining what you should expect from a DVR

Samsung Techwin's newest series of DVRs offer powerful features and high-end performance that would normally be found only in enterprise class systems at a much higher cost. From the 4 channel SVR-440 to the 32 channels SVR-3200, we are redefining the performance and system capabilities available in stand-alone digital video recorders.

### Enterprise class performance in a mainstream DVR real-time full 4CIF quality recording

The newest series of Samsung Techwin DVRs are capable of recording full 4CIF resolution in real-time for up to 16 channels. With the latest MPEG-4 compression technology, they will redefine what you should expect in video quality and performance from a mainstream DVR.
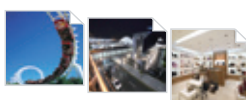


CIF (352 x 240)          4CIF (704 x 480)

### Multi-stream support for real-time monitoring

The DVRs are capable of providing simultaneous MPEG-4 and JPEG streams. This means that they can produce E-mail event notifications with embedded pictures in addition to high quality real-time video that can be tailored to meet network requirements.



MPEG-4 Recording          High Quality Still Image Recording

### Various quick & easy search modes

- Thumbnail Search : Users can check videos in the thumbnail image viewer and find saved videos more quickly.
- Book Mark Function : When users register desired playback points, they can directly play the video when needed without searching it again.
- Calendar Search : Videos can be easily searched for by just entering a selected date and time.
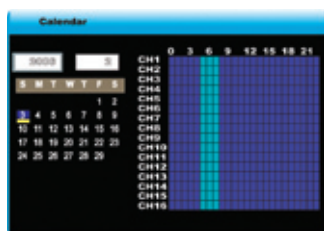


Thumbnail Search          Thumbnail Search

## Powerful CMS support : Samsung Network Manager (SNM-128S)

Samsung Techwin DVRs come with a copy of the standard version of our Network Management software. This is a map-based GUI that will allow the user to monitor and control multiple DVRs from one viewing and control location. For more information on the powerful remote management capabilities of this software, see the SNM-128S/P specifications in the network products section.



SNM-128S CMS Software

### Various alarm & event control

Experience more convenient surveillance through the alarm/event control of our Network Management Software. It can monitor with pop-up images and lists by receiving event/alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating a warning, sound, to be performed when an alarm signal is received. The alarm control station, supports more powerful alarm/event management.
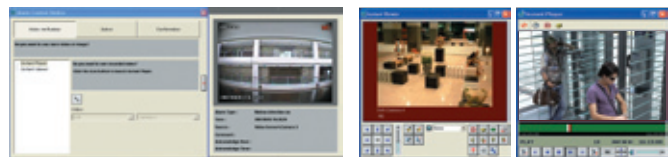


Alarm control station (Window for alarm status control only)
- Instant viewer, Live image indication
- Instant player, Recorded image playback (DVR only)
- Alarm status check and add incident response comments to events

### Built-in Web Server

These DVRs have a built-in web server which will allow remote viewing, PTZ control, and playback using an Internet browser.



Web-viewer Monitor          Web-viewer Playback

# DVR TERMS & FEATURES

## Recording Time Table (NTSC)

* Note : Actual recording time will vary depending on the amount of motion and picture detail in the scene.
This timetable is authored SVR-3200/1680C/1660C/1645/960C/945 according to firmware version 1.2.2, content of this timetable can differ by Firmware version.

### SVR-3200
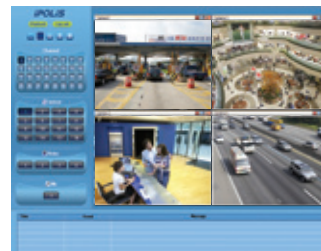Installed Hard Disk : 500GB　　　　　Unit : Days

| 704 x 480 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 480 | 1.1 | 1.2 | 1.3 | 2.1 | 6.1 |
| 224 | 2.3 | 2.6 | 2.8 | 4.5 | 12.9 |
| 128 | 2.9 | 3.3 | 3.9 | 6.8 | 22.6 |
| 64 | 5.8 | 6.7 | 7.8 | 13.6 | 45.2 |
| 32 | 11.8 | 13.4 | 15.6 | 27.3 | 90.4 |

| 704 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 960 | 0.7 | 0.9 | 1.2 | 2 | 5.7 |
| 480 | 1.4 | 1.8 | 2.4 | 3.9 | 11.4 |
| 224 | 2.9 | 3.8 | 5.2 | 8.4 | 24.1 |
| 128 | 3.7 | 5.1 | 7.1 | 11.7 | 42.6 |
| 64 | 7.3 | 10.3 | 14.3 | 23.3 | 85.1 |
| 32 | 14.6 | 20.4 | 28.4 | 46.7 | 160.8 |

### SVR-1680C
Installed Hard Disk : 500GB　　　　　Unit : Days

| 704 x 480 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 480 | 0.7 | 0.7 | 0.8 | 1.3 | 3.8 |
| 240 | 1.4 | 1.5 | 1.7 | 2.6 | 7.6 |
| 112 | 2.9 | 3.2 | 3.5 | 5.6 | 16.2 |
| 64 | 3.7 | 4.2 | 4.9 | 8.5 | 28.4 |
| 32 | 7.3 | 8.4 | 9.7 | 17 | 56.7 |
| 16 | 14.6 | 16.7 | 19.4 | 34 | 111.3 |

| 704 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 480 | 0.9 | 1.1 | 1.5 | 2.5 | 7.1 |
| 240 | 1.7 | 2.2 | 3.1 | 4.9 | 14.3 |
| 112 | 3.7 | 4.7 | 6.6 | 10.5 | 30.5 |
| 64 | 4.6 | 6.4 | 8.9 | 14.6 | 53.6 |
| 32 | 9.2 | 12.9 | 17.9 | 29.2 | 107.2 |
| 16 | 18.3 | 25.6 | 35.7 | 57.9 | 206.7 |

### SVR-1660C
Installed Hard Disk : 500GB　　　　　Unit : Days

| 352 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 480 | 1.4 | 2.5 | 3.3 | 5.4 | 16.1 |
| 240 | 2.9 | 5.1 | 6.7 | 10.7 | 32.2 |
| 112 | 6.2 | 10.9 | 14.3 | 23 | 68.9 |
| 64 | 7.7 | 14.5 | 20.1 | 32.9 | 120.6 |
| 32 | 15.4 | 28.9 | 40.2 | 65.8 | 241.1 |
| 16 | 30.8 | 57.9 | 80.4 | 131.5 | 482.3 |

### SVR-1645
Installed Hard Disk : 500GB　　　　　Unit : Days

| 352 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 480 | 1.4 | 2.5 | 3.3 | 5.4 | 16.1 |
| 240 | 2.9 | 5.1 | 6.7 | 10.7 | 32.2 |
| 112 | 6.2 | 10.9 | 14.3 | 23 | 68.9 |
| 64 | 7.7 | 14.5 | 20.1 | 32.9 | 120.6 |
| 32 | 15.4 | 28.9 | 40.2 | 65.8 | 241.1 |
| 16 | 30.8 | 57.9 | 80.4 | 131.5 | 482.3 |

### SVR-960C/945
Installed Hard Disk : 500GB　　　　　Unit : Days

| 352 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 270 | 2.6 | 4.5 | 5.9 | 9.5 | 28.6 |
| 234 | 3 | 5.2 | 6.8 | 11 | 33 |
| 135 | 5.1 | 9 | 11.8 | 19.1 | 57.2 |
| 90 | 7.7 | 13.5 | 17.7 | 28.6 | 85.7 |
| 63 | 11 | 19.3 | 25.3 | 40.8 | 122.5 |
| 36 | 13.7 | 25.7 | 35.7 | 58.5 | 214.3 |
| 18 | 27.4 | 51.4 | 71.4 | 116.9 | 428.7 |

### SVR-940
Installed Hard Disk : 500GB　　　　　Unit : Days

| 704 x 480 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 27 | 2.8 | 7.4 | 17.5 |
| 9 | 6.1 | 16.4 | 24.9 |

| 704 x 240 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 54 | 2.8 | 7.9 | 11.4 |
| 27 | 4.1 | 10.3 | 16.6 |
| 9 | 8.4 | 21.1 | 32.9 |

| 352 x 240 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 120 | 2.8 | 8.8 | 12.6 |
| 99 | 2.9 | 9.2 | 14 |
| 45 | 4.7 | 14.1 | 18.4 |
| 9 | 10 | 32.9 | 47.2 |

### SVR-480
Installed Hard Disk : 320GB　　　　　Unit : Days

| 704 x 480 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 120 | 2.9 | 3.2 | 3.5 | 5.5 | 16.1 |
| 60 | 5.8 | 6.3 | 7 | 11 | 32.2 |
| 28 | 12.4 | 13.6 | 15 | 23.6 | 68.9 |
| 16 | 15.5 | 17.8 | 20.7 | 36.2 | 120.6 |
| 8 | 31.1 | 35.5 | 41.3 | 72.3 | 241.1 |

| 352 x 240 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 120 | 5.8 | 10.2 | 13.3 | 21.4 | 64.3 |
| 60 | 11.5 | 20.3 | 26.6 | 42.9 | 128.6 |
| 28 | 24.7 | 43.5 | 57 | 91.9 | 275.6 |
| 16 | 30.9 | 57.9 | 80.4 | 131.5 | 482.3 |
| 8 | 61.6 | 115.7 | 160.8 | 263 | 964.5 |

### SVR-450
Installed Hard Disk : 320GB　　　　　Unit : Days

| 704 x 480 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 28 | 6.16 | 18.49 | 24.65 |
| 20 | 6.9 | 20.69 | 27.58 |
| 12 | 7.96 | 23.88 | 31.84 |
| 4 | 9.65 | 28.94 | 38.58 |

| 352 x 240 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 120 | 5.92 | 17.76 | 23.69 |
| 80 | 7.71 | 23.13 | 30.84 |
| 40 | 11.04 | 33.13 | 44.18 |
| 4 | 18.08 | 54.25 | 72.34 |

### SVR-440
Installed Hard Disk : 160GB　　　　　Unit : Days

| 704 x 480 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 28 | 3.94 | 11.83 | 15.78 |
| 20 | 4.41 | 13.24 | 17.65 |
| 12 | 5.09 | 15.28 | 20.37 |
| 4 | 6.17 | 18.52 | 24.69 |

| 352 x 240 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 120 | 3.79 | 11.37 | 15.16 |
| 80 | 4.93 | 14.8 | 19.74 |
| 40 | 7.07 | 21.2 | 28.27 |
| 4 | 11.57 | 34.72 | 46.3 |

DVR

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* Note : Actual recording time will vary depending on the amount of motion and picture detail in the scene.
This timetable is authored SVR-3200/1680C/1660C/1645/960C/945 according to firmware version 1.2.2, content of this timetable can differ by Firmware version.

## SVR-3200
Installed Hard Disk : 500GB  Unit : Days

| 704 x 576 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 384 | 1.1 | 1.2 | 1.3 | 2 | 6.5 |
| 192 | 2.3 | 2.4 | 2.6 | 4 | 12.9 |
| 96 | 3.2 | 3.8 | 4.5 | 7.2 | 22.6 |
| 64 | 4.9 | 5.7 | 6.8 | 10.9 | 33.6 |
| 32 | 9.7 | 11.3 | 13.6 | 21.6 | 68.9 |
| 704 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
| 800 | 0.7 | 0.9 | 1.1 | 1.9 | 5.9 |
| 384 | 1.4 | 1.9 | 2.4 | 3.9 | 12.3 |
| 192 | 2.9 | 3.8 | 4.8 | 7.8 | 24.1 |
| 96 | 4.1 | 5.7 | 8.1 | 13.6 | 42.6 |
| 64 | 6.1 | 8.6 | 12.2 | 20.4 | 62.9 |
| 32 | 12.3 | 17.2 | 24.1 | 41.3 | 131.5 |

## SVR-1680C
Installed Hard Disk : 500GB  Unit : Days

| 704 x 576 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 400 | 0.7 | 0.7 | 0.8 | 1.2 | 3.9 |
| 192 | 1.4 | 1.5 | 1.6 | 2.5 | 8.1 |
| 96 | 2.8 | 3.0 | 3.2 | 5 | 16.2 |
| 48 | 4.1 | 4.7 | 5.7 | 9.1 | 28.4 |
| 32 | 6.1 | 7.1 | 8.5 | 13.6 | 42.6 |
| 16 | 12.2 | 14.2 | 17 | 27.3 | 85.1 |
| 704 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
| 400 | 0.9 | 1.2 | 1.4 | 2.3 | 7.3 |
| 192 | 1.8 | 2.4 | 3 | 4.9 | 15.3 |
| 96 | 3.6 | 4.8 | 6 | 9.7 | 30.5 |
| 48 | 5.1 | 7.1 | 10.1 | 17.1 | 53.6 |
| 32 | 7.7 | 10.7 | 15.1 | 25.6 | 80.4 |
| 16 | 15.3 | 21.4 | 30.1 | 51.7 | 160.8 |

## SVR-1660C
Installed Hard Disk : 500GB  Unit : Days

| 352 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 400 | 1.4 | 2.3 | 3.2 | 5.3 | 16.5 |
| 192 | 3 | 4.8 | 6.7 | 11 | 34.4 |
| 96 | 6 | 9.6 | 13.4 | 21.9 | 68.9 |
| 48 | 8.6 | 16.1 | 21.9 | 34.4 | 120.6 |
| 32 | 12.9 | 24.1 | 32.9 | 51.7 | 180.8 |
| 16 | 25.8 | 48.2 | 65.8 | 103.3 | 361.7 |

## SVR-1645
Installed Hard Disk : 500GB  Unit : Days

| 352 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 400 | 1.4 | 2.3 | 3.2 | 5.3 | 16.5 |
| 192 | 3 | 4.8 | 6.7 | 11 | 34.4 |
| 96 | 6 | 9.6 | 13.4 | 21.9 | 68.9 |
| 48 | 8.6 | 16.1 | 21.9 | 34.4 | 120.6 |
| 32 | 12.9 | 24.1 | 32.9 | 51.7 | 180.8 |
| 16 | 25.8 | 48.2 | 65.8 | 103.3 | 361.7 |

## SVR-960C/945
Installed Hard Disk : 500GB  Unit : Days

| 352 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 225 | 2.6 | 4.1 | 5.7 | 9.4 | 29.4 |
| 198 | 2.9 | 4.7 | 6.5 | 10.6 | 33.4 |
| 108 | 5.4 | 8.6 | 11.9 | 19.5 | 61.2 |
| 72 | 8 | 12.9 | 17.9 | 29.2 | 91.9 |
| 54 | 10.7 | 17.1 | 23.8 | 39 | 122.5 |
| 27 | 15.3 | 28.6 | 39 | 61.2 | 214.3 |
| 18 | 23 | 42.9 | 58.5 | 91.9 | 321.5 |

## SVR-940
Installed Hard Disk : 500GB  Unit : Days

| 704 x 576 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 18 | 2.8 | 8.6 | 12.6 |
| 9 | 6.1 | 14.6 | 22.7 |
| 704 x 288 FPS | SUPER | HIGH | NORMAL |
| 45 | 2.5 | 7.3 | 10.3 |
| 27 | 3.9 | 9.5 | 14.5 |
| 9 | 6.4 | 18.8 | 26.9 |
| 352 x 288 FPS | SUPER | HIGH | NORMAL |
| 100 | 2.6 | 7.9 | 12 |
| 45 | 4.4 | 12.4 | 16.6 |
| 9 | 10.4 | 28.4 | 45.4 |

## SVR-480
Installed Hard Disk : 320GB  Unit : Days

| 704 x 576 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
|---|---|---|---|---|---|
| 100 | 2.9 | 3.1 | 3.3 | 5.1 | 16.5 |
| 48 | 6 | 6.4 | 6.9 | 10.7 | 34.4 |
| 24 | 12.1 | 12.9 | 13.8 | 21.4 | 68.9 |
| 12 | 17.2 | 20.1 | 24.1 | 38.6 | 120.6 |
| 8 | 25.8 | 30.1 | 36.2 | 57.9 | 180.8 |
| 352 x 288 FPS | Q5 | Q4 | Q3 | Q2 | Q1 |
| 100 | 5.8 | 9.3 | 12.9 | 21 | 66.1 |
| 48 | 12.1 | 19.3 | 26.8 | 43.8 | 137.8 |
| 24 | 24.1 | 38.6 | 53.6 | 87.7 | 275.6 |
| 12 | 34.4 | 64.3 | 87.7 | 137.8 | 482.3 |
| 8 | 51.7 | 96.5 | 131.5 | 206.7 | 723.4 |

## SVR-450
Installed Hard Disk : 320GB  Unit : Days

| 704 x 576 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 24 | 6.5 | 19.49 | 25.99 |
| 16 | 7.37 | 22.12 | 29.49 |
| 12 | 7.96 | 23.88 | 31.84 |
| 4 | 9.65 | 28.94 | 38.58 |
| 352 x 288 FPS | SUPER | HIGH | NORMAL |
| 100 | 6.7 | 20.09 | 26.79 |
| 68 | 8.48 | 25.43 | 33.91 |
| 52 | 9.78 | 29.33 | 39.1 |
| 4 | 18.08 | 54.25 | 72.34 |

## SVR-440
Installed Hard Disk : 160GB  Unit : Days

| 704 x 576 FPS | SUPER | HIGH | NORMAL |
|---|---|---|---|
| 24 | 4.16 | 12.48 | 16.64 |
| 16 | 4.72 | 14.16 | 18.87 |
| 12 | 5.09 | 15.28 | 20.37 |
| 4 | 6.17 | 18.52 | 24.69 |
| 352 x 288 FPS | SUPER | HIGH | NORMAL |
| 100 | 4.29 | 12.86 | 17.15 |
| 68 | 5.43 | 16.28 | 21.7 |
| 52 | 6.26 | 18.77 | 25.03 |
| 4 | 11.57 | 34.72 | 46.3 |

# SVR-3200

## 32 Channel Premium DVR with 960fps at 2CIF resolution

**SAMSUNG TECHWIN**  **SAMSUNG**

### Overview

The SVR-3200 provides 32 channels of high resolution real-time video recording capability at 2CIF (N : 704 x 240, P : 704 x 288) resolution. The SVR-3200 allows the user to customize the recording setting to achieve real-time full 4CIF (N : 704 x 480, P : 704 x 576) resolution on selected channels. The SVR-3200 also comes with network monitoring software which allows the user to have remote access and control of the DVR over the network. The SVR-3200 is the perfect choice for medium to large businesses.
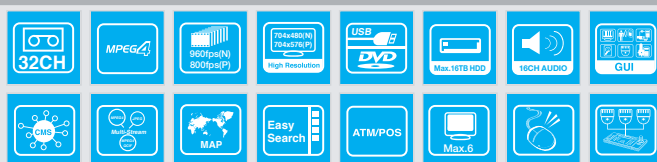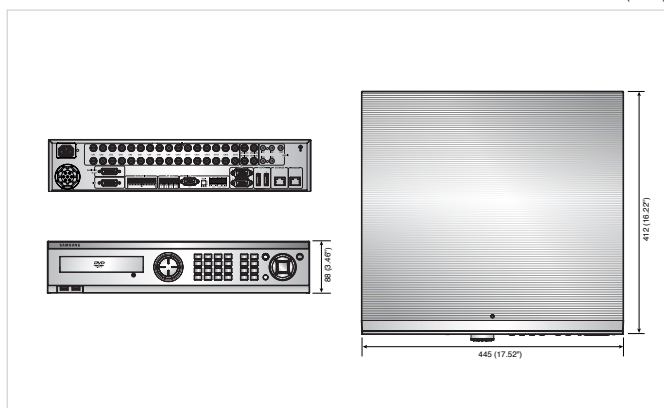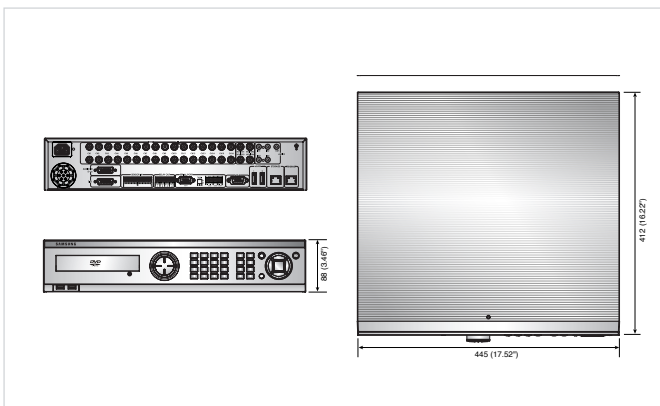
### Features

- True real-time 960fps(N), 800fps(P) 4CIF high resolution live display
  960fps(N), 800fps(P) 2CIF resolution video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- Thumbnail search / Calendar search / Book mark function
- 6 Monitor outputs          • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

### Dimensions

Unit : mm (inch)

412 (16.22")
88 (3.46")
445 (17.52")

## Technical Specifications

| | | SVR-3200 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 32 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 960fps | PAL : 800fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 / 10 / 16 | |
| **PERFORMANCE** | | | |
| Recording | Compression | MPEG-4 | |
| | Record Rate | NTSC | PAL |
| | | Up to 480fps@704 x 480 (4CIF) | Up to 400fps@704 x 576 (4CIF) |
| | | Up to 960fps@704 x 240 (2CIF) | Up to 800fps@704 x 288 (2CIF) |
| | | Up to 960fps@352 x 240 (CIF) | Up to 800fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys and jog shuttle) | |
| | Transmission Speed | Up to 16Mbps | |
| Network | Bandwidth Control | Automatic | |
| | Multi Stream | MPEG-4 (Dual Stream) / JPEG | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 16TB using external storage option | |
| | Internal HDD | Up to 4 SATA HDDs | |
| | External HDD | Up to 2 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution, 2VGA | |
| | Main Composite 1 (Inputs 1-16) | BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Main Composite 2 (Inputs 17-34) | BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite 3 (Inputs 1-16) | BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu | |
| | Sub Composite 4 (Inputs 17-34) | BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu | |
| | VGA 1 (Inputs 1-16) | Multi-screen, Menu, Playback (Mirror of main composite 1) | |
| | VGA 2 (Inputs 17-34) | Multi-screen, Menu, Playback (Mirror of main composite 2) | |
| | Loop Outputs | N/A | |
| Audio | Inputs | 16 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 16 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 2 External SATA ports | |
| Communication Protocols | Application Support | ATM/POS, Mouse, Remote controller | |
| | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 445 x 88 x 412mm (17.52" x 3.46" x 16.22") | |
| | Weight (4X Hard Disks) | Approx. 11Kg (24.25 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

DVR

# SVR-1680C

## 16 Channel Premium DVR with 480fps at full 4CIF resolution

### Overview

The SVR-1680C provides 16 channels of high resolution real-time video recording capability at full 4CIF (N : 704 x 480, P : 704 x 576) resolution for all 16 channels. The SVR-1680C is compatible with Samsung's powerful CMS software which gives users full control of DVR functionality and administration. The SVR-1680C includes multiple monitor outputs, fast DVD back up, and built-in web server. The SVR-1680C is the perfect choice for medium to large businesses.

| 16CH | MPEG4 | 480fps(N) 704x576(P) High Resolution | 704x480(N) 704x576(P) DVD | USB DVD | Max.16TB HDD | 16CH AUDIO | GUI |
|---|---|---|---|---|---|---|---|
| CMS | Multi Stream | MAP | Easy Search | ATM/POS | COAX | | |

### Features

- True real-time 480fps(N), 400fps(P) 4CIF high resolution live display
  480fps(N), 400fps(P) 4CIF high resolution video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- Thumbnail search / Calendar search / Book mark function
- 5 Monitor outputs        • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording
- PTZ control using coax cable

### Dimensions

Unit : mm (inch)

412 (16.22")
88 (3.46")
445 (17.52")

## Technical Specifications

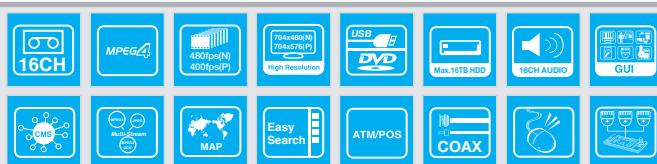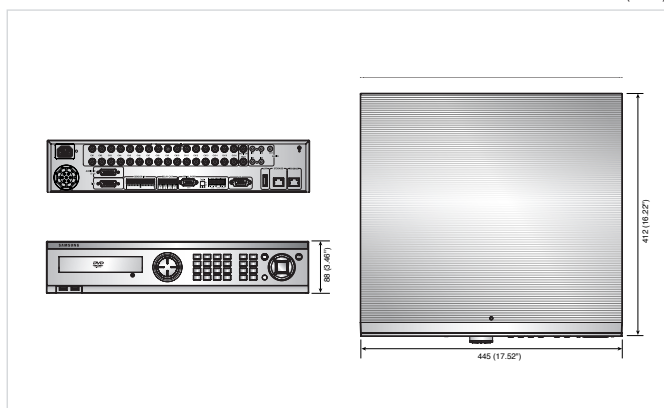| | | SVR-1680C | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 16 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 480fps | PAL : 400fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 / 10 / 16 | |
| **PERFORMANCE** | | | |
| Recording | Compression | MPEG-4 | |
| | Record Rate | NTSC | PAL |
| | | Up to 480fps@704 x 480 (4CIF) | Up to 400fps@704 x 576 (4CIF) |
| | | Up to 480fps@704 x 240 (2CIF) | Up to 400fps@704 x 288 (2CIF) |
| | | Up to 480fps@352 x 240 (CIF) | Up to 400fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys and jog shuttle) | |
| Network | Transmission Speed | Up to 9Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | MPEG-4 (Dual Stream) / JPEG | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 16TB using external storage option | |
| | Internal HDD | Up to 4 SATA HDDs | |
| | External HDD | Up to 2 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 3 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu | |
| | Loop Outputs | 16 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 16 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 16 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422, Coax cable | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 2 External SATA ports | |
| | Application Support | ATM/POS, Mouse, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Pelco Coaxitron, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 445 x 88 x 412mm (17.52" x 3.46" x 16.22") | |
| | Weight (4X Hard Disks) | Approx. 11Kg (24.25 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English | |
| | | Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

FIRST PRINT 9-2009

# SVR-1660C

## 16 Channel DVR with 480fps at CIF resolution

**SAMSUNG TECHWIN**   **SAMSUNG**

### Overview

The SVR-1660C provides a cost effective solution for real-time video recording of up to 16 cameras at CIF (N : 352 x 240, P : 352 x 288) resolution. SVR-1660C is compatible with Samsung's powerful CMS software giving users the full remote control of the DVR functionality and administration. The SVR-1660C includes advanced features such as multiple monitor outputs, fast DVD back up, and built-in web server.
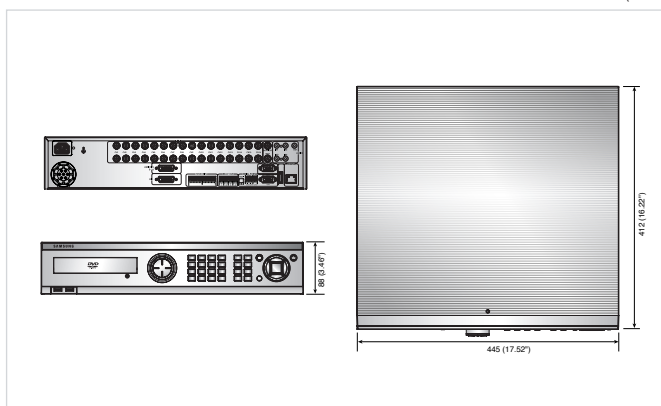
### Features

- True real-time 480fps(N), 400fps(P) digital image display
  480fps(N), 400fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 4 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- Thumbnail search / Calendar search / Book mark function
- 3 Monitor outputs    • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording
- PTZ control using coax cable

### Dimensions

Unit : mm (inch)

412 (16.22")
88 (3.46")
445 (17.52")

## Technical Specifications

| | | SVR-1660C | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 16 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 480fps | PAL : 400fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 / 10 / 16 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| Recording | Record Rate | NTSC<br>Up to 120fps@704 x 480 (4CIF)<br>Up to 240fps@704 x 240 (2CIF)<br>Up to 480fps@352 x 240 (CIF) | PAL<br>Up to 100fps@704 x 576 (4CIF)<br>Up to 200fps@704 x 288 (2CIF)<br>Up to 400fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys and jog shuttle) | |
| Network | Transmission Speed | Up to 9Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | MPEG-4 (Dual Stream) / JPEG | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 16TB using external storage option | |
| | Internal HDD | Up to 4 SATA HDDs | |
| | External HDD | Up to 2 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu | |
| | Loop Outputs | 16 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 16 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 16 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422, Coax cable | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 2 External SATA ports | |
| | Application Support | ATM/POS, Mouse, Remote controller | |
| Communication Protocols | Supported | Samsung Techwin, Pelco D, Pelco P, Pelco Coaxitron, | |
| | PTZ Cameras | Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 130W (With 4X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 445 x 88 x 412mm (17.52" x 3.46" x 16.22") | |
| | Weight (4X Hard Disks) | Approx. 11Kg (24.25 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Korean<br>Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish,<br>Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

DVR

# SVR-1645

## 16 Channel DVR

## Overview

The SVR-1645 is a high performance digital video recorder with 16 camera inputs. The DVR comes with a recording rate of 480/400 frames per second (NTSC/PAL) and features CMS management and DVD writer as standard features. The DVR come with smart thumbnail, and bookmark search capabilities, it is easy to install and operate, and can be connected easily to a SCC-3100A keyboard for advanced control.

Acknowledged as 'Recommended'
**by Benchmark Magazine's** Independent Testing

## Features

- True real-time 480fps(N), 400fps(P) digital image display
  480fps(N), 400fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- 3 Monitor outputs          • Built-in web server
- RS-232C, RS-485/422      • Pan / Tilt / Zoom support (Multi-protocol)
- 16 Channels audio recording

## Dimensions

Unit : mm (inch)

412 (16.22")
88 (3.46")
445 (17.52")

## Technical Specifications

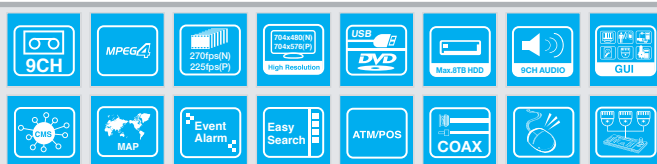| | | SVR-1645 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 16 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 480fps | PAL : 400fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 / 10 / 16 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| Recording | Record Rate | NTSC | PAL |
| | | Up to 120fps@704 x 480 (4CIF) | Up to 100fps@704 x 576 (4CIF) |
| | | Up to 240fps@704 x 240 (2CIF) | Up to 200fps@704 x 288 (2CIF) |
| | | Up to 480fps@352 x 240 (CIF) | Up to 400fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys and jog shuttle) | |
| Network | Transmission Speed | Up to 9Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | N/A | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 8TB using external storage option | |
| | Internal HDD | Up to 2 SATA HDDs | |
| | External HDD | Up to 1 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm, Analog spot | |
| | Loop Outputs | 16 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 16 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 16 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 1 External SATA port | |
| | Application Support | ATM/POS, Mouse, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 445 x 88 x 412mm (17.52" x 3.46" x 16.22") | |
| | Weight (2X Hard Disks) | Approx. 8.6Kg (18.96 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Korean | |
| | | Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

FIRST PRINT 9-2009

# SVR-960C

## 9 Channel DVR

SAMSUNG TECHWIN | SAMSUNG

### Overview

The SVR-960C offers 9 channels of high resolution video real-time recording capability and powerful integrated network management of an unlimited number of DVRs. It comes with smart thumbnail, and bookmark search capabilities, fast DVD back up and easy control with intuitive GUI and mouse interface.
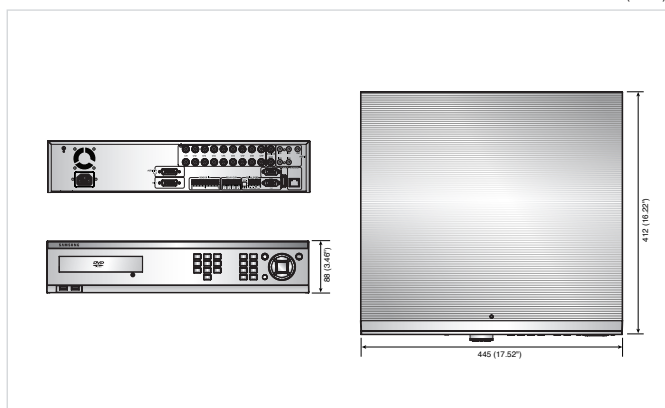
| 9CH | MPEG4 | 270fps(N) 225fps(P) | 704x480(N) 704x576(P) High Resolution | USB DVD | Max.8TB HDD | 9CH AUDIO | GUI |
|---|---|---|---|---|---|---|---|
| CMS | MAP | Event Alarm | Easy Search | ATM/POS | COAX | | |

### Features

- True real-time 270fps(N), 225fps(P) digital image display
              270fps(N), 225fps(P) digital video recording
- MPEG-4 Compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
                         [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- 3 Monitor outputs       • Built-in web server
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 9 Channels audio recording
- PTZ control using coax cable

### Dimensions

Unit : mm (inch)

412 (16.22")
88 (3.46")
445 (17.52")

### Technical Specifications

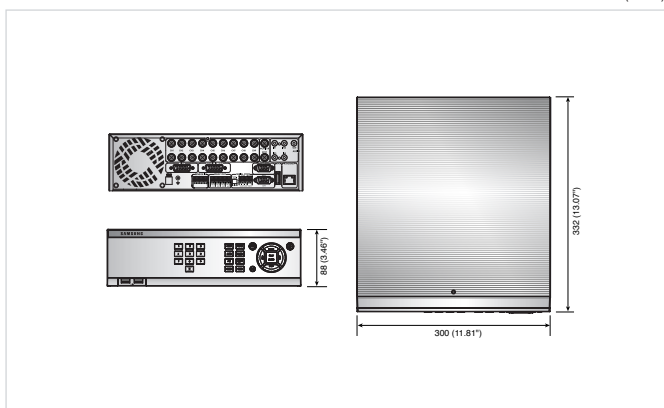| | | SVR-960C | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 9 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| Live | Frame Rate | NTSC : 270fps | PAL : 225fps |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 / 10 / 16 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| Recording | Record Rate | NTSC<br>Up to 120fps@704 x 480 (4CIF)<br>Up to 240fps@704 x 240 (2CIF)<br>Up to 270fps@352 x 240 (CIF) | PAL<br>Up to 100fps@704 x 576 (4CIF)<br>Up to 200fps@704 x 288 (2CIF)<br>Up to 225fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys and jog shuttle) | |
| Network | Transmission Speed | Up to 9Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | N/A | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 16TB using external storage option | |
| | Internal HDD | Up to 2 SATA HDDs | |
| | External HDD | Up to 1 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm, Analog spot | |
| | Loop Outputs | 9 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 9 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 9 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422, Coax cable | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 1 External SATA port | |
| | Application Support | ATM/POS, Mouse, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Pelco Coaxitron, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 445 x 88 x 412mm (17.52" x 3.46" x 16.22") | |
| | Weight (4X Hard Disks) | Approx. 8.6Kg (18.96 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Korean<br>Spanish, French, German, Italian, Portuguese, Polish, Russian,Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

DVR

# SVR-945

## 9 Channel Compact DVR

**SAMSUNG TECHWIN** | **SAMSUNG**

### Overview

The SVR-945 is a compact and affordably priced 9 channel DVR that can record high quality images in real time with highly efficient advanced MPEG-4 compression. It is equipped with a wide range of smart functions for user convenience and system reliability such as thumbnail search modes, ATM/POS text recording, and easy control with intuitive GUI and mouse interfaces. Designed as a compact yet feature-rich solutions, it can easily and conveniently be installed in virtually any location.
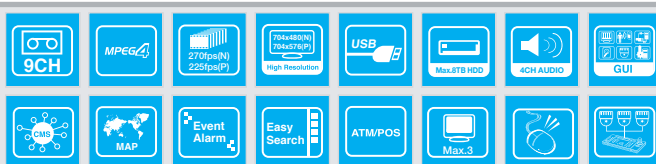
### Features

- True real-time 270fps(N), 225fps(P) digital image display
     270fps(N), 225fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
     [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal SATA HDDs
- Two front panel USB ports for easy back up
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller and a mouse
- Multi-language
- 10/100 base-T network interface capability
- Thumbnail search / Calendar search / Book mark function
- 3 Monitor outputs          • Built-in web server
- RS-232C, RS-485/422     • Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording
- Compact design

### Dimensions

Unit : mm (inch)

332 (13.07")
88 (3.46")
300 (11.81")

## Technical Specifications

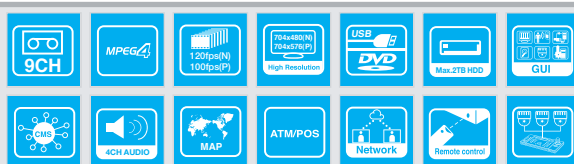| | | SVR-945 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 9 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 270fps | PAL : 225fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 | |
| **PERFORMANCE** | | | |
| Recording | Compression | MPEG-4 | |
| | Record Rate | NTSC | PAL |
| | | Up to 120fps@704 x 480 (4CIF) | Up to 100fps@704 x 576 (4CIF) |
| | | Up to 240fps@704 x 240 (2CIF) | Up to 200fps@704 x 288 (2CIF) |
| | | Up to 270fps@352 x 240 (CIF) | Up to 225fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event, Emergency | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Bookmark, Text (Exclusive viewer) | |
| | Playback Function | REW, FWD, Frame advance (Control keys) | |
| Network | Transmission Speed | Up to 9Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | N/A | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP and NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 8TB using external storage option | |
| | Internal HDD | Up to 2 SATA HDDs | |
| | External HDD | Up to 1 expansion bay | |
| | DVD Writer (Back up) | N/A | |
| | USB (Back up) | 2 External USB ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 10 User level | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm, Analog spot | |
| | Loop Outputs | 9 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 9 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 9 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 1 External SATA port | |
| Communication Protocols | Application Support | ATM/POS, Mouse, Remote controller | |
| | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 66W (With 1X HDD) / Max. 88W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 300 x 88 x 332mm (11.82" x 3.46" x 13.07") | |
| | Weight | Approx. 5Kg (11.02 lb) | |
| | Rack Mount Kit | Stand type | |
| Language | | English, Korean Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Chinese, Taiwanese | |
| Certifications | | FCC (Class A), CE (Class A) | |

# SVR-940

## 9 Channel DVR

SAMSUNG TECHWIN | SAMSUNG

### Overview

The SVR-940 is a 9 channel digital video recorder that offers high resolution real-time display and recording performance. It comes with an array of features including flexible back up via internal DVD-R and USB port, multi-language OSD, remote controller, and easy PTZ control with front panel buttons.

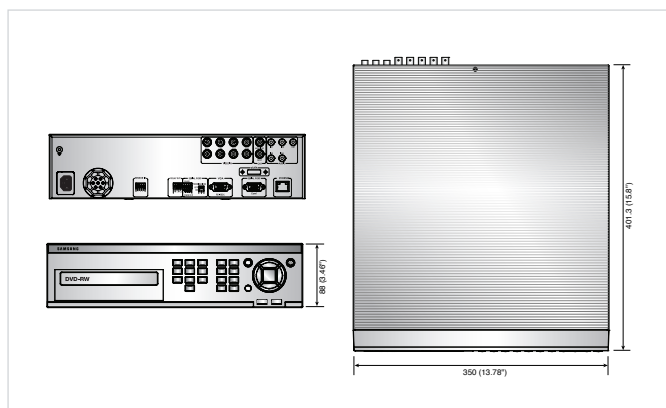| 9CH | MPEG4 | 120fps(N) 100fps(P) | 704x480(N) 704x576(P) High Resolution | USB DVD | Max.2TB HDD | GUI |
| CMS | 4CH AUDIO | MAP | ATM/POS | Network | Remote control | |

### Features

- True real-time 270fps(N), 225fps(P) digital image display
             120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
             [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 2 Internal HDDs
- Front panel USB port for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- Multi-language
- 10/100 base-T network interface capability
- RS-232C, RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

### Dimensions

Unit : mm

313 (12.32")    362 (14.25")    88.8 (3.5")    430 (16.93")
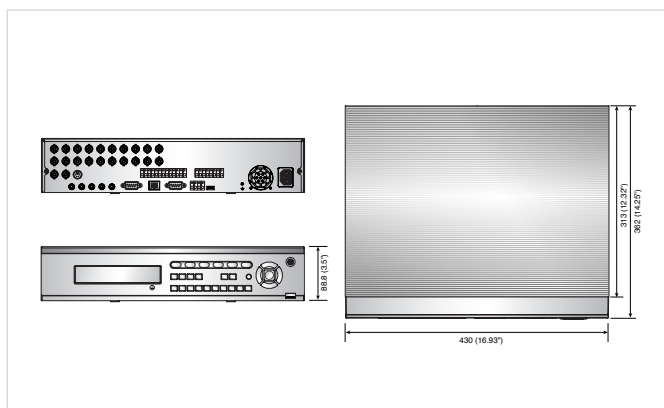
### Technical Specifications

| | | SVR-940 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 9 Composite video 0.5-2 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 270fps | PAL : 225fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 / 9 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| | | NTSC | PAL |
| Recording | Record Rate | Up to 30fps@704 x 480 (4CIF) | Up to 25fps@704 x 576 (4CIF) |
| | | Up to 60fps@704 x 240 (2CIF) | Up to 50fps@704 x 288 (2CIF) |
| | | Up to 120fps@352 x 240 (CIF) | Up to 100fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 3 sec. | |
| | Post-alarm | Up to 20 sec. | |
| Search & Playback | Search Mode | Date/Time, Event (Motion, Sensor, TEXT) | |
| | Playback Function | REW, FWD, Frame advance | |
| | Transmission Speed | Up to 16Mbps | |
| | Bandwidth Control | On / Off selection | |
| Network | Multi Stream | N/A | |
| | Max. Remote Users | 4 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Web viewer | |
| | Maximum Capacity | 2TB | |
| | Internal HDD | Up to 2 SATA HDDs | |
| Storage | External HDD | N/A | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 1 External USB port | |
| | File Format (Back up) | AVI, JPEG | |
| Security | Password Protection | 4 User level | |
| | Data Authentication | N/A | |
| **INTERFACE** | | | |
| | VGA | Analog RGB 800 x 600 resolution, VGA/BNC selectable | |
| Monitors | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm, Single | |
| | Loop Outputs | 9 Composite video 1 Vpp, 75 ohm | |
| | Inputs | 4 Line in, 30K ohm | |
| Audio | Output | 1 Line, 100K ohm | |
| | Compression | PCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 9 inputs, NO/NC | |
| | Outputs | Terminal 4 relay outputs | |
| | Remote Notification | Notification via e-mail | |
| | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422 | |
| Connections | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 1 USB 2.0 port | |
| | eSATA | N/A | |
| | Application Support | ATM/POS, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, SEC, Pelco D, Pelco P, SRX, VICON, CNB, SONY | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 60W (With 1X HDD) / Max. 75W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| | Dimensions (WxHxD) | 430 x 88.8 x 362mm (16.93" x 3.5" x 14.25") | |
| Mechanical | Weight (4X Hard Disks) | Approx. 6.3Kg (13.89 lb) (except HDDs) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean | |
| Certifications | | FCC (Class A), UL/cUL listed, CE (Class A) | |

DVR

# SVR-480

NEW

## 4 Channel Compact DVR

SAMSUNG TECHWIN  SAMSUNG

CNPP APPROVAL | FC | CE

## Overview

The SVR-480 is a 4 channel standalone digital recording device that records high resolution videos in full 4CIF based on MPEG-4 compression. With enhanced MPEG-4 compression capabilities, this recorder supports high resolution images as well as saves and plays high resolution video feed from up to 4 channels at maximum 120fps(N)/100fps(P). This recorder also helps establish effective central management for DVRs and network systems, as it comes with a powerful CMS program. The high-speed DVD back up option allows easier data transfers and storage, and a variety of enhanced search options such as Thumbnail and Bookmark are provided to search and play videos more quickly and accurately.

| 4CH | MPEG4 | 120fps(N) 100fps(P) | 704x480(N) 704x576(P) High Resolution | USB DVD | Max.6TB HDD | GUI |
| CMS | Multi Stream | 4CH AUDIO | MAP | ATM/POS | Network | Remote control | |

## Features

- True real-time 120fps(N), 100fps(P) digital image display 120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)] [704 x 576, 704 x 288, 352 x 288(P)]
- Simultaneous MPEG-4/JPEG streaming
- Capacity for up to 2 Internal SATA HDDs
- Front panel USB port for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- Convenient control with a remote controller
- Multi-language
- 10/100 base-T network interface capability
- RS-232C, RS-485
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

## Dimensions

Unit : mm

350 (13.78")

401.3 (15.8")

88 (3.46")

350 (13.78")

## Technical Specifications

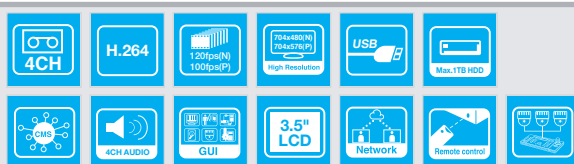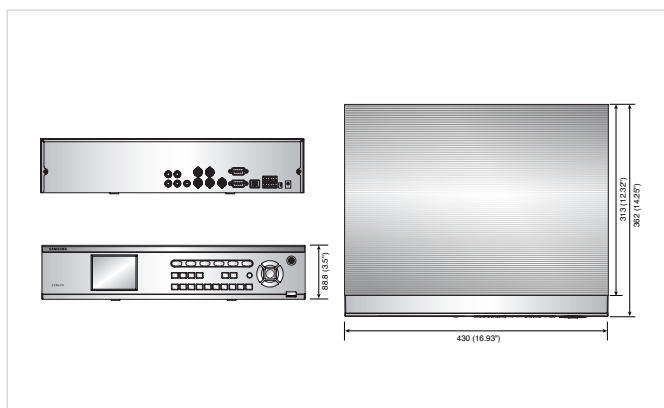| | | SVR-480 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 4 Composite video 1 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 120fps | PAL : 100fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 | |
| **PERFORMANCE** | | | |
| Recording | Compression | MPEG-4 | |
| | Record Rate | NTSC<br>Up to 120fps@704 x 480 (4CIF)<br>Up to 120fps@704 x 240 (2CIF)<br>Up to 120fps@352 x 240 (CIF) | PAL<br>Up to 100fps@704 x 576 (4CIF)<br>Up to 100fps@704 x 288 (2CIF)<br>Up to 100fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail, Text (SNM-128S) | |
| | Playback Function | REW, FWD, Frame advance | |
| Network | Transmission Speed | Up to 16Mbps | |
| | Bandwidth Control | Automatic | |
| | Multi Stream | MPEG-4 / JPEG | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, ARP, ICMP, DHCP, PPPoE, UDP, SMTP, SNMP, FTP, SNTP, HTTP, DNS, DDNS, NTP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Web viewer | |
| Storage | Maximum Capacity | Up to 6TB using external storage option | |
| | Internal HDD | Up to 2 SATA HDDs | |
| | External HDD | Up to 1 expansion bay | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 2 External USB Ports | |
| | File Format (Back up) | BMP, AVI, Proprietary format / JPEG (Exclusive viewer) | |
| Security | Password Protection | 1 Admin, 10 User | |
| | Data Authentication | Watermark | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600, 1024 x 768, 1280 x 1024 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | 1 BNC, 1 Vp-p, 75 ohm | |
| | Loop Outputs | 4 Composite video 1 Vpp, 75 ohm | |
| Audio | Inputs | 4 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 4 inputs, NO/NC | |
| | Outputs | Terminal 2 relay outputs | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 2 USB 2.0 ports | |
| | eSATA | 1 External SATA port | |
| | Application Support | ATM/POS, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 45W (With 1X HDD) / Max. 60W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 350 x 88 x 401.3mm (13.78" x 3.46" x 15.8") | |
| | Weight (4X Hard Disks) | Approx. 7Kg (15.43 lb) | |
| | Rack Mount Kit | N/A | |
| Language | | English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Chinese, Taiwanese, Czech, Serbian, Swedish, Rumanian, Danish, Korean | |
| Certifications | | FCC (Class A), CE (Class A) | |

# SVR-470 *NEW*

## 4 Channel DVR with Built-in LCD

FC | CE

## Overview

The SVR-470 is a 4 channel standalone digital video recorder with a built-in LCD. With H.264 compression, this video recorder transfers and records high resolution images at 120fps in real time. USB terminals facilitate convenient data back up while the front LCD window enables easy monitoring. A variety of user-friendly options including a GUI menu, multiple language OSD, ATM-POS text saving options, and remote control are provided along with an exclusive Network Manager program.

| | | | | | |
|---|---|---|---|---|---|
| 4CH | H.264 | 120fps(N) 100fps(P) | 704x480(N) 704x576(P) High Resolution | USB | Max.1TB HDD |
| CMS | 4CH AUDIO | GUI | 3.5" LCD | Network | Remote control | |

## Features

- True real-time 120fps(N), 100fps(P) digital image display
         120fps(N), 100fps(P) digital video recording
- H.264 & Convenient GUI Menu
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
         [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 1 Internal HDD
- Front panel USB port for easy back up
- 3.5" LCD Window for Easy Monitoring
- Powerful CMS support as standard (SVM-S1)
- Convenient control with a remote controller
- Multi-language
- 10/100 base-T network interface capability
- RS-232C, RS-485
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

## Dimensions

Unit : mm

313 (12.32")   362 (14.25")
88.8 (3.5")
430 (16.93")

## Technical Specifications

DVR

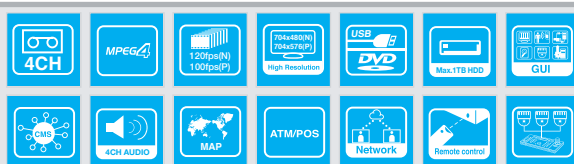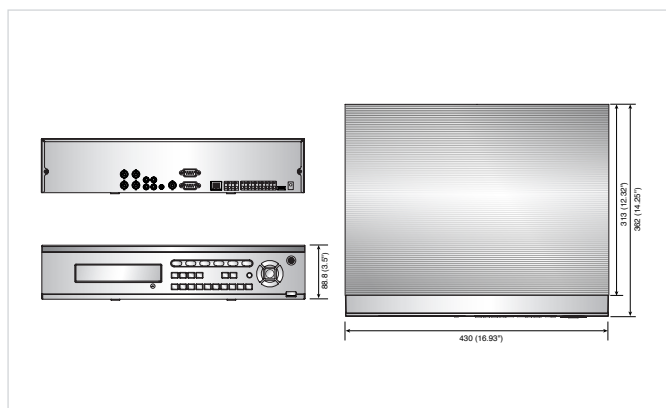| | | SVR-470 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 4 Composite video 1 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 120fps | PAL : 100fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 | |
| **PERFORMANCE** | | | |
| Recording | Compression | H.264 | |
| | Record Rate | NTSC | PAL |
| | | Up to 30fps@704 x 480 (4CIF) | Up to 25fps@704 x 576 (4CIF) |
| | | Up to 120fps@352 x 240 (CIF) | Up to 100fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 3 sec. | |
| | Post-alarm | Up to 20 sec. | |
| Search & Playback | Search Mode | Date/Time, Event (Motion, Sensor, TEXT) | |
| | Playback Function | REW, FWD, Frame advance | |
| Network | Transmission Speed | Up to 16Mbps | |
| | Bandwidth Control | N/A | |
| | Multi Stream | N/A | |
| | Max. Remote Users | 2 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE | |
| | Monitoring | CMS Software (SVM-S1), Built-in web server | |
| Storage | Maximum Capacity | Up to 1TB | |
| | Internal HDD | Up to 1 SATA HDD | |
| | External HDD | N/A | |
| | DVD Writer (Back up) | N/A | |
| | USB (Back up) | 1 External USB port | |
| | File Format (Back up) | AVI, JPEG, Proprietary format | |
| Security | Password Protection | 4 User level | |
| | Data Authentication | N/A | |
| **INTERFACE** | | | |
| Monitors | Display LCD | 3.5″ QVGA (320 x 240) | |
| | VGA | Analog RGB 800 x 600 resolution | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | N/A | |
| | Loop Outputs | N/A | |
| Audio | Inputs | 4 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | PCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 4 inputs, NO/NC | |
| | Outputs | Terminal 1 relay outputs | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 1 USB 2.0 port | |
| | eSATA | N/A | |
| | Application Support | ATM/POS, Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch, SEC, AD | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 12V DC Adapter | |
| | Power Consumption | Max. 23W (With 1X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 430 x 88.8 x 362mm (16.93″ x 3.5″ x 14.25″) | |
| | Weight (1X Hard Disks) | Approx. 7.65Kg (16.87 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Spanish, French, German, Italian, Polish, Portuguese, Russian, Turkish, Japanese, Czech, Serbian, Swedish, Rumanian, Danish, Korean | |
| Certifications | | FCC (Class A), CE (Class A) | |

FC | CE

# SVR-450

## 4 Channel DVR

### Overview

The SVR-450 is a 4 channel digital video recorder designed to be used as the security device in small shops, convenience stores, banks, ATMs, etc. It uses an embedded operating system, securing system performance and safety. It can record up to 120/100 (NTSC/PAL) frames per second and provides various features such as. motion detection, PTZ (Pan, Tilt and Zoom) control, password setting, real-time voice data storage, and up to 10,000 event lists and log file storage.

| 4CH | MPEG4 | 120fps(N) 100fps(P) | 704x480(N) 704x576(P) High Resolution | USB DVD | Max.1TB HDD | GUI |
| CMS | 4CH AUDIO | MAP | ATM/POS | Network | Remote control | |

### Features

- True real-time 120fps(N), 100fps(P) digital image display
  120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- Capacity for up to 1 Internal HDD
- Front panel USB port for easy back up
- DVD writer is included as standard
- ATM/POS transaction data recording and search
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- Multi-language
- 10/100 base-T network interface capability
- RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

### Dimensions

Unit : mm

313 (12.32")
362 (14.25")
88.8 (3.5")
430 (16.93")

## Technical Specifications

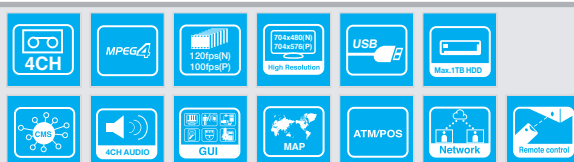| | | SVR-450 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 4 Composite video 1 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 120fps | PAL : 100fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| | Record Rate | NTSC | PAL |
| | | Up to 30fps@704 x 480 (4CIF) | Up to 25fps@704 x 576 (4CIF) |
| Recording | | Up to 120fps@352 x 240 (CIF) | Up to 100fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 3 sec. | |
| | Post-alarm | Up to 20 sec. | |
| Search & Playback | Search Mode | Date/Time, Event (Motion, Sensor, TEXT) | |
| | Playback Function | REW, FWD, Frame advance | |
| | Transmission Speed | Up to 16Mbps | |
| | Bandwidth Control | On / Off selection | |
| Network | Multi Stream | N/A | |
| | Max. Remote Users | 4 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, SMTP, DNS, DDNS, PPPoE | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), ipolis viewer | |
| | Maximum Capacity | 1TB | |
| | Internal HDD | Up to 1 SATA HDD | |
| Storage | External HDD | N/A | |
| | DVD Writer (Back up) | DVD-R / CD-R | |
| | USB (Back up) | 1 External USB port | |
| | File Format (Back up) | AVI, JPEG | |
| Security | Password Protection | 4 User level | |
| | Data Authentication | N/A | |
| **INTERFACE** | | | |
| | VGA | Analog RGB 800 x 600 resolution, VGA/BNC selectable | |
| Monitors | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | N/A | |
| | Loop Outputs | N/A | |
| | Inputs | 4 Line in, 30K ohm | |
| Audio | Output | 1 Line, 100K ohm | |
| | Compression | PCM | |
| | Sampling Rate | 16KHz | |
| | Inputs | Terminal 4 inputs, NO/NC | |
| Alarm | Outputs | Terminal 1 relay outputs | |
| | Remote Notification | Notification via e-mail | |
| | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | RS-232C | |
| | PTZ Control Interface | RS-485/422 | |
| Connections | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 1 USB 2.0 port | |
| | eSATA | N/A | |
| | Application Support | ATM/POS, Remote controller | |
| Communication Protocols | Supported | Samsung Techwin, SEC, Pelco D, Pelco P, | |
| | PTZ Cameras | SRX, VICON, CNB, SONY | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 60W (With 1X HDD) / Max. 75W (With 2X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| | Dimensions (WxHxD) | 430 x 88.8 x 362mm (16.93" x 3.5" x 14.25") | |
| Mechanical | Weight (4X Hard Disks) | Approx. 5.2Kg (11.46 lb) (except HDDs) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language | | English, Spanish, French, German, Italian, Portuguese, Polish, Russian, Turkish, Japanese, Korean | |
| Certifications | | FCC (Class A), CE (Class A) | |

REVISED 11-2009

# SVR-440

## 4 Channel Compact DVR

FC | CE

## Overview

The SVR-440 is an ideal solution for applications that require a simple, low cost, and easy-to-use DVR. It uses an embedded operating system and is quick and easy to install and configure. Unlike other low cost solutions, the SVR-440 offers great picture quality and features like 4 channels of audio recording.

4CH | MPEG4 | 120fps(N) 100fps(P) | 704x480(N) 704x576(P) High Resolution | USB | Max.1TB HDD

CMS | 4CH AUDIO | GUI | MAP | ATM/POS | Network | Remote control

## Features

- True real-time 120fps(N), 100fps(P) digital image display
  120fps(N), 100fps(P) digital video recording
- MPEG-4 compression
- High resolution image [704 x 480, 704 x 240, 352 x 240(N)]
  [704 x 576, 704 x 288, 352 x 288(P)]
- 160GB 1 HDD internal capacity
- Front panel USB port for easy back up
- Integrated network multi-view, multi-users remote viewing
- Convenient control with a remote controller
- Compact size and refined appearance
- Multi-language
- 10/100 base-T network interface capability
- RS-485/422
- Pan / Tilt / Zoom support (Multi-protocol)
- 4 Channels audio recording

## Dimensions

Unit : mm (inch)

200 (10.24")

65 (2.56")

350 (13.78")
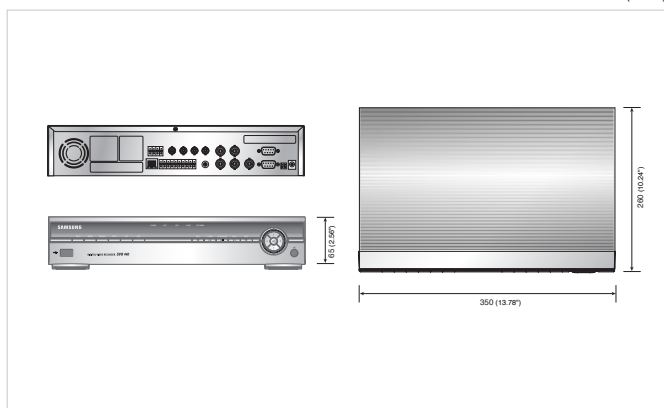
## Technical Specifications

| | | SVR-440 | |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Inputs | 4 Composite video 1 Vpp, 75 ohm automatic termination | |
| | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Frame Rate | NTSC : 120fps | PAL : 100fps |
| Live | Resolution | NTSC : 704 x 480 | PAL : 704 x 576 |
| | Multi Screen Display | 1 / 4 | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 | |
| Recording | Record Rate | NTSC | PAL |
| | | Up to 30fps@704 x 480 (4CIF) | Up to 25fps@704 x 576 (4CIF) |
| | | Up to 120fps@352 x 240 (CIF) | Up to 100fps@352 x 288 (CIF) |
| | Mode | Manual, Schedule, Event | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 3 sec. | |
| | Post-alarm | Up to 20 sec. | |
| Search & Playback | Search Mode | Date/Time, Event (Motion, Sensor) | |
| | Playback Function | REW, FWD, Frame advance | |
| Network | Transmission Speed | Up to 16Mbps | |
| | Bandwidth Control | N/A | |
| | Multi Stream | N/A | |
| | Max. Remote Users | 4 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, PPPoE | |
| | Monitoring | Network Viewer program | |
| Storage | Maximum Capacity | 1TB | |
| | Internal HDD | Up to 1 PATA HDD | |
| | External HDD | N/A | |
| | DVD Writer (Back up) | N/A | |
| | USB (Back up) | 1 External USB port | |
| | File Format (Back up) | AVI, JPEG | |
| Security | Password Protection | 1 User | |
| | Data Authentication | N/A | |
| **INTERFACE** | | | |
| Monitors | VGA | Analog RGB 800 x 600 resolution, VGA/BNC selectable | |
| | Main Composite | 1 BNC, 1 Vp-p, 75 ohm, Multi-screen, Menu, Playback | |
| | Sub Composite | N/A | |
| | Loop Outputs | N/A | |
| Audio | Inputs | 4 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 16KHz | |
| Alarm | Inputs | Terminal 4 inputs, NO/NC | |
| | Outputs | Terminal 1 relay outputs | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | Serial Interface | N/A | |
| | PTZ Control Interface | RS-485/422 | |
| | PTZ Keyboard | RS-485, Max. signal voltage ±12V | |
| | USB | 1 USB 2.0 port | |
| | eSATA | N/A | |
| | Application Support | Remote controller | |
| Communication Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, Bosch | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 12V DC Adapter | |
| | Power Consumption | Max. 25W (With 1X HDD) | |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 80%RH | |
| Mechanical | Dimensions (WxHxD) | 350 x 65 x 260mm (13.78" x 2.56" x 10.24") | |
| | Weight (4X Hard Disks) | Approx. 3.2Kg (7.05 lb) | |
| | Rack Mount Kit | N/A | |
| Language | | English, Korean | |
| Certifications | | FCC (Class B), CE (Class A) | |

DVR

# SVS-5R/5E

## RAID 5 Unit / HDD Extension Unit

### Overview

The SVS-5R/5E external hard drive offers extra data storage exclusively for DVRs. Designed as a 19-inch rack mount unit, it can be mounted in a cabinet along with DVR units. With SATA II it supports a maximum speed of 3.0Gbps to save and play video. The SVS-5R supports RAID configurations to protect data from disk damage and improve performance by distributing data evenly over two or more disks.

SVS-5R

SVS-5E

### Features

#### SVS-5R

- 1U 19-inch rack case
- Data transfer speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD : Up to 4 (4TB)
- Supports RAID 0, 1, 0+1, 5
- Hot-Swappable Disk Drive Bays
- Front LCD for RAID status display
- USB port for RAID settings
- Alarm for errors

#### SVS-5E

- 1U 19-inch rack case
- Data transfer speed : Up to 3.0Gbps (SATA II)
- Available SATA HDD : Up to 4 (4TB)
- Expandable for more storage

### Technical Specifications

|  | SVS-5R | SVS-5E |
|---|---|---|
| Transmission Speed | Up to 3.0Gbps (SATA II) | |
| Maximum Capacity | Up to 4TB | |
| Internal HDD | Up to 4 SATA HDDs (Support Hot-Swap function) | Up to 4 SATA HDDs |
| RAID | RAID 0, 1, 0+1, 5 | N/A |
| eSATA | 1 External SATA ports for DVR connection | |
| USB | USB 2.0, RAID configuration only | N/A |
| Operating Temperature | +5°C ~ +45°C (+41°F ~ +113°F) | |
| Operating Humidity | 20%RH ~ 70%RH | |
| Input Voltage | 115 ~ 230V AC ±10%, 50/60 Hz, Autoranging | |
| Dimensions (WxHxD) | 482 x 44 x 433mm (19" x 1.7" x 17") | 484 x 44 x 450mm (19.1" x 1.7" x 17.7") |
| Weight | Approx. 6.4Kg (14.1 lb) | Approx. 5.6Kg (12.3 lb) |
| Rack Mount Kit | For mounting one unit in an EIA 19-inch rack | |
| Supported Devices | SVR-3200/1680C/1660C/1645/960C/945 | |
| Certifications | FCC (Class A), UL/cUL listed, CE (Class A) | |

### Dimensions

Unit : mm

SVS-5R

433

44

458

482

SVS-5E

450

44

484
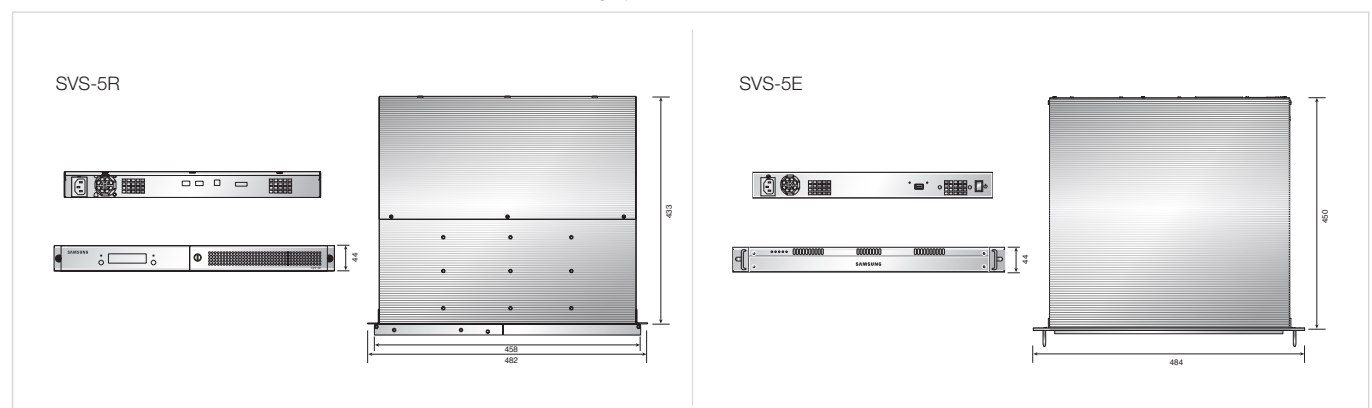
# NETWORK

## Samsung Digital Security Systems

**SAMSUNG TECHWIN**

**SAMSUNG**

# NETWORK SOLUTION

## iPOLiS - High Image Quality Network Security Solution

*Clear Imaging!*
*Real Time!*
*Easy Control!*

Samsung Techwin's innovative IP based video security products offer convenient solutions for remote applications. iPOLiS security solutions deliver real time audio/video monitoring directly to your web browser. With high-performance MPEG-4/JPEG compression, bi-directional audio, and choices of network protocols, iPOLiS conveniently secures your site, It is also very easy for users to assign an IP address, or connect the camera to the network.

### Hybrid CCTV System

STM-19LA
Monitor

Analog CCTV Camera

SHC-735

SDC-435

SID-560W

SPD-3750

SVR-1670
DVR

SNS-400/100
Network Encoder

### iPOLiS Security System

SND-560

Retail

Hospital

SNP-1000A

SNC-570

Network Camera

Factory

SND-460V

Warehouse

SNP-3750

Building

IP NETWORK

SNR-3200
Network recorder

Internet

PC with
Video Management S/W

PC with
Web browser

PC with
Web browser

Cafe

Office

Home

SAMSUNG

# NETWORK SELECTION

| | NETWORK VIDEO RECORDER | NETWORK VIDEO ENCODER | NETWORK CAMERA | | | | | |
|---|---|---|---|---|---|---|---|---|
| | SNR-6400/3200 | SNS-400/100 | SNC-1300 | SNC-570 | SND-560 | SND-460V | SNP-3300A | SNP-1000A |
| | iPOLiS | iPOLiS | iPOLiS | iPOLiS | iPOLiS | iPOLiS | iPOLiS | iPOLiS |
| Hardware OS | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux | Embedded Linux |
| Codec | MPEG-4/JPEG full dual codec | MPEG-4/JPEG compression | MPEG-4/JPEG full dual codec | MPEG-4/JPEG full dual codec | MPEG-4/JPEG full dual codec | MPEG-4/JPEG full dual codec | MPEG-4/JPEG compression | MPEG-4/JPEG compression |
| Audio | Camera support | SNS-400 : 4/1, 1CH bi-direction SNS-100 : 1/1, 1CH bi-direction | 1/1, 1CH Bi-direction | 1/1, 1CH Bi-direction | 1/1, 1CH Bi-direction | 1/1, 1CH Bi-direction | 1/1, 1CH Bi-direction | 1/1, 1CH Bi-direction |
| Camera / Video | Network recording | SNS-400 : 4 Input / 1 Output SNS-100 : 1 Input / 1 Output | 1 Output | 1 Output | 1 Output | 1 Output | 1 Output | 1 Output |
| Image Resolution | 704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P) | 704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P) | 704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P) | 704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P) | 704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P) | 704 x 480, 352 x 240, 176 x 120 (N) / 704 x 576, 352 x 288, 176 x 144 (P) | 704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P) | 704 x 480, 704 x 240, 352 x 240 (N) / 704 x 576, 704 x 288, 352 x 288 (P) |
| Frame Rate | 4CIF 1,280fps (N) / 4CIF 1,152fps (P) | SNS-400 : CIF 120fps (N) / CIF 100fps (P) SNS-100 : VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) | VGA 30fps (N) / VGA 25fps (P) |
| Video Features | 64/32CH recording | SNS-400 : 1 or 4CH Sequence, Full screen SNS-100 : 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display | 1CH full screen Time / Date / Title display |
| Network Protocol | RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP | TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP | RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP | RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP | RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP | RTP/VDP, RTP/MULTICAST, RTSP, TCP/IP, DHCP, HTTP, SMTP, FTP, DNS, DDNS, PPPoE, NTP | TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP | TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS, PPPoE, NTP |
| Network Interface | Ethernet (100/1000M) | Ethernet (10/100M) | Ethernet (10/100M) | Ethernet (10/100M) | Ethernet (10/100M) | Ethernet (10/100M) | Ethernet (10/100M) | Ethernet (10/100M) |
| Data Interface | RS-232C | RS-232C/422/485 | RS-485 | RS-485 | RS-485 | RS-485 | N/A | N/A |
| Alarm In / Out | 2 / 2 | SNS-400 : 4 / 4 SNS-100 : 2 / 2 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 4 / 2 | 2 / 1 |
| Notification | N/A | Motion detection | Motion detection | Object detection Motion detection | Object detection Motion detection | Object detection Motion detection | Area zoom Motion detection | Area zoom Motion detection |
| Alarm Image Transfer | FTP, E-mail | FTP, E-mail | FTP, E-mail | FTP, E-mail | FTP, E-mail | FTP, E-mail | FTP, E-mail | FTP, E-mail |
| Management | Network Manager (SVM-S1, SNM-128S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) | Network Manager (SVM-S1, SNM-128S/P, SNM-64S/P) |
| Event Storage | N/A | USB 2.0 | SD memory card | SD memory card | SD memory card | SD memory card | N/A | N/A |
| Web Server | Built-in | Built-in | Built-in | Built-in | Built-in | Built-in | Built-in | Built-in |
| Web Browser | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher | IE 5.5 or higher |

| | CENTRALIZED VIDEO MANAGEMENT SOFTWARE | | | NETWORK RECODING SOFTWARE |
|---|---|---|---|---|
| | SVM-S1 | SNM-128P | SNM-64P | SNR-32A/16A/9A |
| | iPOLiS | iPOLiS | iPOLiS | iPOLiS |
| Features | • Up to 64 channels real-time live monitoring<br>• Support up to 4 VGA output<br>• Register 2,047 devices and control up to 64 stream simultaneously<br>• PTZ, Bi-directional audio, Sensor / Relay | • Up to 128 channels real-time live monitoring<br>• Support up to 6 VGA output<br>• Register unlimited devices and control up to 128 stream simultaneously<br>• PTZ, Bi-directional audio, Sensor / Relay | • Up to 128 channels real-time live monitoring<br>• Support up to 3 VGA output<br>• Register unlimited devices and control up to 128 stream simultaneously<br>• PTZ, Bi-directional audio, Sensor / Relay | • Record up to 32 audio / video streams<br>• Record up to 480fps at CIF resolution<br>• Record up to full 4CIF resolution<br>• Ability to view live display and play back recorded video on single channel |

NETWORK PRODUCT

# NETWORK TERMS & FEATURES

## Real-time surveillance over the Internet at any time...

Samsung Techwin's innovative network products are perfect and convenient solutions for remote surveillance over the internet. The network units utilize the most efficient video compression technology for faster transmission and high quality images. Now you can enjoy real images and video streams in real time from anywhere through the web at any time. There is no need for PC or any additional devices. Wherever there is an LAN connection and modem, you can keep an eye on the site. Assigning an IP address and connecting the camera to the network is very easy.

## Infinite uses for business applications *!*

The network products are equipped with a built-in operating system based on the high performace web server, so that you can put the camera directly on the internet. They can be used easily for remote surveillance, video conferencing, personal website hosting, small business website hosing, real time video on your website, video chatting and more. These consist of network servers and network cameras. They can be installed onto the Internet or local networks within minutes.
Furthermore vivid and high quality video can be enjoyed by up to 100 simultaneous users. It also has 4.5MB of configurable flash memory, FTP function for image archiving, and supports two way audio. And they can be easily integrated into your current security systems. The advanced MPEG-4 image compression technology provides clear pictures that are up to 300% smaller than comparable JPEG images.
The following are the main features of the Samsung's network units. They uses MPEG-4 or JPEG codec technology to allow high compression rates and clear picture quality by allowing for high frame rates to be transmitted and are designed for easy installation and set-up, maintenance and repair. The products also transmit real-time video and Bi-direction audio, allows for users to record and play using any viewer on their PC. Motion Detection creates connection on an alarm, and allows captured images to be sent through email or FTP.
Furthermore, they support NTSC and PAL cameras, and allow for multiple video sizes or picture options for the applicable models.

## MPEG-4/JPEG compression support

With the selective application of MPEG-4 and JPEG compression formats, the best image quality can be provided flexibly, depending on the available transmission bandwidth.

## Open standards environment

Supporting TCP/IP networking, SMTP e-mail, HTTP and other Internet-related protocols : the network products can be used in mixed operating system environments, such as, Windows. It integrates easily into other www.Intranet applications and CGI scripts.

## Embedded Linux operating system

Network product adopt cutting-edge technologies of digital image processing & networking. Network products incorporate a high performance CPU (32bit RISC), running embedded Linux, it allows for more than 100 users to be connected to the network products simultaneously.

## Simple administration

Using a standard Web browser, you can configure and manage Web-product directly from its own Web pages. When a new firmware release becomes available, you can simply upgrade all of your network products remotely over the network.

## RJ-45

The RJ-45 connector is commonly used for network cabling and for telephone applications. It's also used for serial connections in special cases.

## Multi-stream support for real-time monitoring

The SNC-570 uses the Dual Codec (MPEG-4, JPEG) and the Transcoder techniques, all 6 streams are transferred simultaneously and independently. Using such techniques, each client may receive or play 6 individual streams according to their particular choice or as a whole.
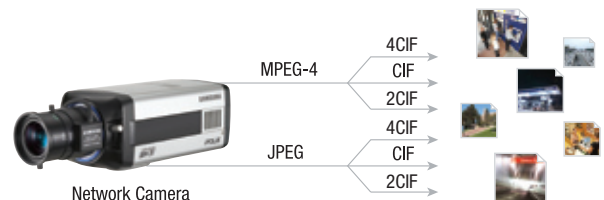


## Dual stream

Dual stream supports MPEG-4 and JPEG dual output for simultaneous live monitoring and high resolution recording, which reduces bandwidth demands for low bandwidth users and allows more information to be transmitted over the network than single-streaming products.

# NETWORK TERMS & FEATURES

## Real-time transmission of VGA High-resolution images at 30fps

iPOLiS network products can transmit distortion free images in all resolution and VGA high resolution images at up to 30fps.

Internet

VGA 30fps
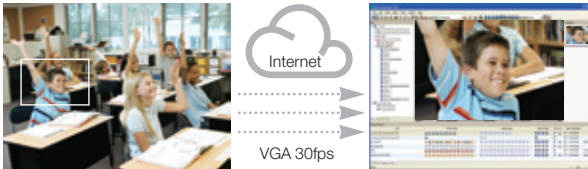
## CMS integrated management (Samsung Network Manager)

iPOLiS network products support the CMS for integrated network mangement. The Samsung Network Manager is a powerful centralized management solution that monitors multiple sites with video, audio and alarm signals over the network. It can monitor up to 128 channels from anywhere in the world at the same time. The users can check the event with more ease via enhanced event/alarm functions such as List, Map, Beeper, Live Image, and Tree modes. It also supports enhanced map viewer for smart network monitoring and convenient search by thumbnail, event, or text category.
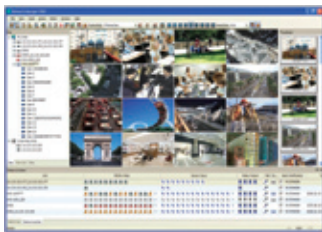
Network Manager

Map Viewer

- Convenient Centralized Management for DVR, Network product
- Max. 128 Channel Simultaneous Realtime Monitoring
- Various Event Control using event exclusive panel
- Instant Playback with Thumbnail / Calendar / Timeline / Text search
- Easy Monitoring with Graphic MAP Viewer

## PoE (Power over Ethernet) support

Since power is supplied through the LAN cables, there will be less complicated cabling and the installation cost will be substantially reduced (IEEE 802.3af).

LAN

Internet

Power+Data

PoE equipment

User (PC)

SND-560
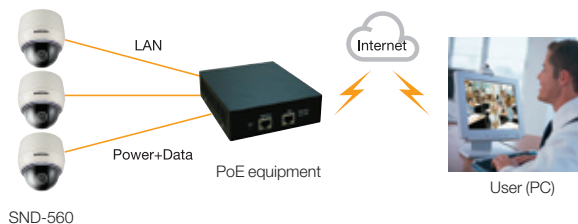
## SDK support

iPOLiS branded product lines provide SDK for the third-party developers to integrate their software with Samsung Techwin IP Products.

## Real-time surveillance with Web viewer

With the support of the Web viewer that can be connected through the Internet, the user can monitor sites anytime, anywhere.

## Dynamic IP registration and DDNS support

Even inexperienced users can easily configure network settings and get a domain name by connecting to www.samsungipolis.com, as a stable Dynamic IP is provided.

## SD memory card slot

The SNC-570, SND-560 are compatible with SD memory cards allowing users to use a SD memory card as local storage to store all the events that occurred, or used as a back up. This allows the user to playback all the events using Samsung Network Manager even if the software network recorder is not available.
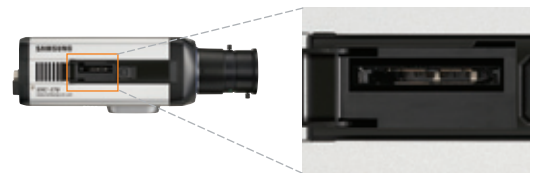
## Network protocol

A protocol is a set of rules or agreed upon guidelines for communication. These protocols have been established by international standards bodies and are used in almost all platforms and around the globe to ensure that all devices on the Internet can communicate successfully. The iPOLiS products support a wide variety of protocols : RTP/UDP, RTP/MULTICAST, RTSP, HTTP, TCP/IP, FTP, SMTP, DHCP, DNS, DDNS.

NETWORK PRODUCT

# SNR-6400/3200 *NEW*

## 64/32 Channel High Performance Network Video Recorder
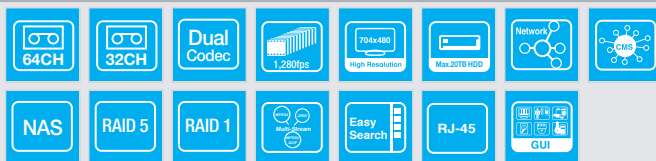
FC | c(UL)us LISTED | CE

## Overview

64/32 Channel Premium High Performance Network Video Recorder The SNR-6400/3200 is our premium network recording solution. Featuring MPEG-4 / JPEG dual codecs, this network recorder records full 4CIF high resolution images at 1,280fps in real time, and saves high performance images from a maximum of 64 or 32 network channels, also in real time. Embedded with our user-friendly Web Viewer and CMS, this video recorder enables you with easy and advanced monitoring of multiple network channels. Using existing network cabling, the SNR-6400/3200 is cost effective to install.

iPOLiS

| 64CH | 32CH | Dual Codec | 1,280fps | 704x480 High Resolution | Max.20TB HDD | Network | CMS |
| NAS | RAID 5 | RAID 1 | Multi-Stream | Easy Search | RJ-45 | GUI | |

## Features

- Real-time MPEG-4/JPEG dual codec
- Full 4CIF high resolution images at 1,280fps(N), 1,152fps(P) in real-time (SNR-6400)
  Full 4CIF high resolution images at 480fps(N), 480fps(P) in real-time (SNR-3200)
- Large-sized default HDD with 1TB data capacity
- Intuitive Thumbnail search / Bookmark search & convenient GUI menu
- Supports multiple video streaming &
  optimal quality for real-time network monitoring
- Supports NAS & RAID 5 (SNR-6400)
- Intuitive system monitoring via front LCD window
- Powerful CMS support as standard (SVM-S1, SNM-128S/P)
- AXIS network camera support (VAPIX)

## Outstanding System Reliability

The SNR-6400/3200 supports RAID 5 to keep data safely stored across multiple disks and protect against unexpected disk failures. More than reliable for data protection, it also supports a large data storage capacity.

### RAID (Redundant Array of Inexpensive Disks)

RAID 5 supports distributed data storage and data recovery in the event of an HDD disk failure.

RAID

## Supports MPEG-4/JPEG Dual Codec

The SNR-6400/3200 supports both MPEG-4 and JPEG compression, recording video feeds from the network cameras without changing file formats.

SNP-3300A
SNP-1000A
SNC-570
SND-460V
SNR-6400/3200
SND-560
Network Camera
PC
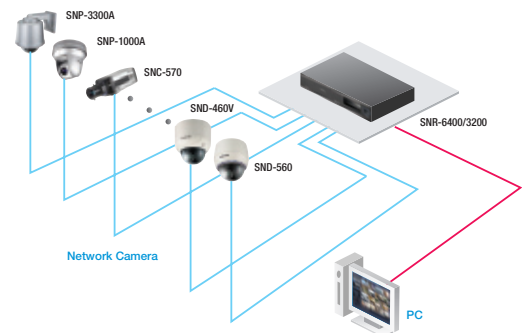
## Maximized Capacity

The SNR-6400/3200 provides a maximum of 20TB disk capacity, which is more than enough to save high resolution videos from multiple channels.

- Supports maximum 4 internal HDD (1TB internal space + 3 additional HDDs)
- Supports external eSATA 4 port (16TB external space)
- Supports NAS (Network Attached Storage)

## Convenient Web Viewer UI

The SNR-6400/3200 Web Viewer with its enhanced user interface is accessible to everyone including new users.

### Playback
With various search options by the date and time, events, and calendar, this network video recorder enables a quick, convenient video searches.

### Monitoring
Various monitoring options are available : live monitoring of a maximum of 64 channels, Pan/Tilt/Zoom control, and managing sensors and alarms.

### Easy Setup
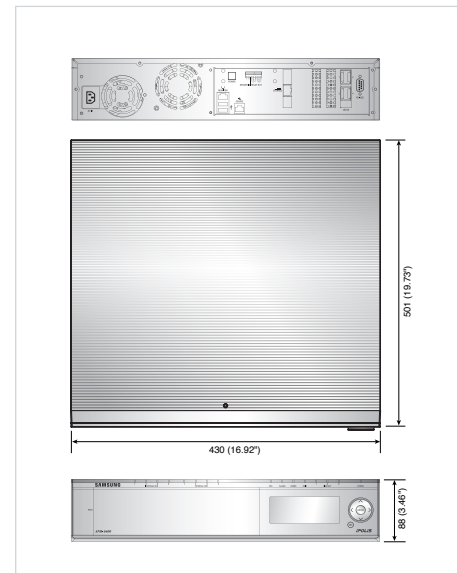All menus are easy to setup, check, and modify. Setting up a network, HDDs, and cameras couldn't be easier.

REVISED 10-2009

# SNR-6400/3200

64/32 Channel High Performance Network Video Recorder

## Technical Specifications

| | | SNR-6400 | SNR-3200 |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | IP Camera Inputs | 64 Channel | 32 Channel |
| Web | Live | 1, 4, 9, 16, 32, 64 Channel simultaneously | 1, 4, 9, 16, 32 Channel simultaneously |
| Support | Search | 1 Channel simultaneously | |
| **PERFORMANCE** | | | |
| | Compression | MPEG-4 / JPEG dual codec (H.264 compression will be supported next firmware version.) | |
| Recording | Record Rate | Up to 1,280fps@704 x 480(N) | Up to 480fps@704 x 480(N) |
| | | Up to 1,920fps@704 x 240(N) | Up to 960fps@704 x 240(N) |
| | | Up to 1,920fps@352 x 240(N) | Up to 960fps@352 x 240(N) |
| | | Up to 1,152fps@704 x 576(P) | Up to 480fps@704 x 576(P) |
| | | Up to 1,600fps@704 x 288(P) | Up to 800fps@704 x 288(P) |
| | | Up to 1,600fps@352 x 288(P) | Up to 800fps@352 x 288(P) |
| | Mode | Manual, Schedule (Normal / Event) | |
| | Overwrite Modes | Continuous | |
| | Pre-alarm | Up to 5 sec. | |
| | Post-alarm | Up to 60 sec. | |
| Search & Playback | Search Mode | Date/Time, Event, Calendar, Thumbnail | |
| | Playback Function | REW, FWD (Depend on CMS) | |
| Network | Bandwidth Control | Automatic (Automatic Transmission Control) | |
| | Max. Remote Users | 10 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, ARP, ICMP,NTP, RTP/RTCP, RTSP | |
| | Monitoring | CMS Software (SVM-S1, SNM-128S/P), Built-in web server | |
| Storage | Maximum Capacity | Up to 20TB using external storage option | |
| | RAID | Normal, RAID 1, RAID 5 | Normal, RAID 1 |
| | Internal HDD | Up to 4 SATA HDDs | |
| | External HDD | Up to 4 expansion bay (Up to 4 HDD each) | |
| | NAS | Up to 4 NAS connection (CIFS/Samba) | |
| Security | Password Protection | 2 User level | |
| **INTERFACE** | | | |
| Monitors | DOT Matrix LCD | 20 x 2 Status display | |
| Alarm | Inputs | Screw terminal 2 inputs, NO/NC | |
| | Outputs | Screw terminal 2 relay outputs, NO/NC | |
| | Remote Notification | Notification via e-mail | |
| Connections | Ethernet | 3 (RJ-45 100/1000 Base-T), 1 (RJ-45 100Base-T) | |
| | Serial Interface | RS-232C | |
| | USB | 2 USB 2.0 ports (Firmware upgrade) | |
| | eSATA | 4 External SATA ports | |
| Dome Protocols | Supported PTZ Cameras | Samsung Techwin network products, AXIS network cameras (VAPIX) | |
| **GENERAL** | | | |
| Electrical | Input Voltage | 100 ~ 240V AC ±10%, 50/60Hz, Auto ranging | |
| | Power Consumption | Max. 110W (With 1X HDD) | Max. 130W (With 4X HDD) |
| Environmental | Operating Temperature | +5°C ~ +40°C (+41°F ~ +104°F) | |
| | Operating Humidity | 0% ~ 60%RH | |
| Mechanical | Dimensions (WxHxD) | 430 x 88 x 501mm (16.92" x 3.46" x 19.73") | |
| | Weight (4X Hard Disks) | Approx. 11Kg (24.25 lb) | |
| | Rack Mount Kit | For mounting one unit in an EIA 19 inch rack | |
| Language (LCD) | | English | |
| Certifications | | FCC (Class A), cUL/UL listed, CE (Class A) | |

## Dimensions
Unit : mm (inch)



501 (19.73")  430 (16.92")  88 (3.46")

## HDD Extension Unit (Option)



SVS-5R

* See page 80 for more details.

NETWORK PRODUCT

## System Configuration



SENSOR 1~2   ALARM OUT

Monitoring PC   Network Camera   RAID 5 Unit (SVS-5R)
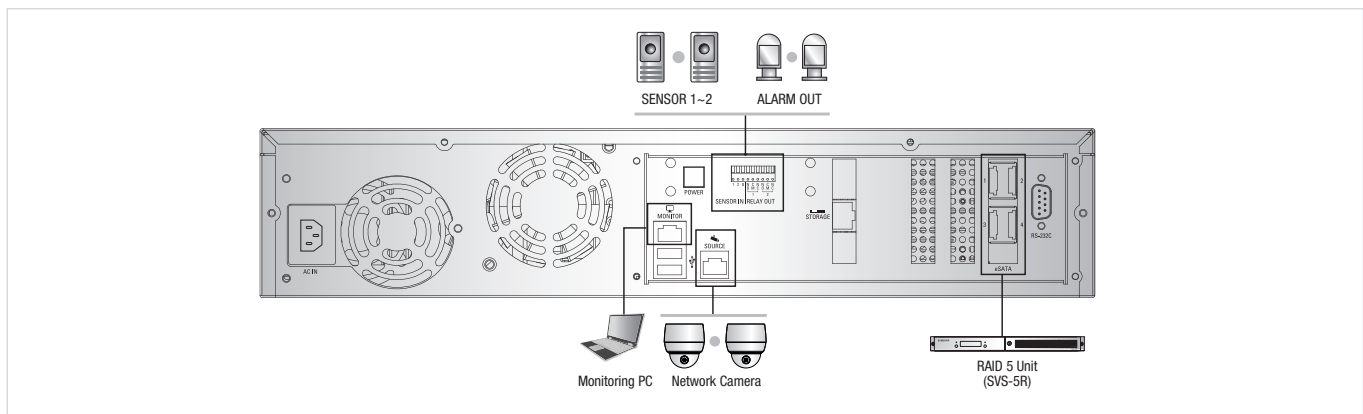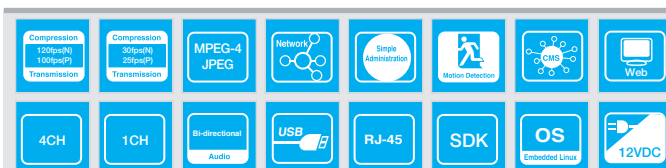
# SNS-400/100

## 4/1 Channel Network Video Encoder

FC | CE

### Overview

The SNS-400/100 MPEG-4/JPEG network video encoder connects 4/1 analogue CCTV video camera to an IP network. The new server is both MPEG-4 and JPEG compatible. MPEG-4 makes viewing video smooth and seamless and when using JPEG images can be transmitted at up to 120fps(N) / 100fps(P), 30fps(N) / 25fps(P). The video encoder uses an embedded linux operating system to take your video signal and broadcast it over any of the supported protocols, including TCP/IP, DHCP, HTTP, SMTP, FTP, DDNS. Plus, the unit is easy to setup and control through an available RS-485 port.

**iPOLiS**

| Compression 120fps(N) 100fps(P) Transmission | Compression 30fps(N) 25fps(P) Transmission | MPEG-4 JPEG | Network | Simple Administration | Motion Detection | CMS | Web |
| 4CH | 1CH | Bi-directional Audio | USB | RJ-45 | SDK | OS Embedded Linux | 12VDC |

### Features

- Real-time MPEG-4/JPEG compression
- Max. CIF 120fps(N) / Max. CIF 100fps(P) image transmission : SNS-400
  Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission : SNS-100
- Bi-directional audio support
- Stored event image with USB memory devices
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
  704 x 576, 704 x 288, 352 x 288(P)
- Static / Dynamic IP support
- Remote Pan / Tilt / Zoom control (RS-232C, RS-485/422)
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending
- Network management software (SVM-S1, SNM-128S/P)
- 4 sensor input, 4 alarm output : SNS-400
  2 sensor input, 2 alarm output : SNS-100
- Voltage : 12V DC

### Dimensions

Unit : mm

**SAMSUNG**

135 (5.31")

45 (1.77")

190 (7.48")
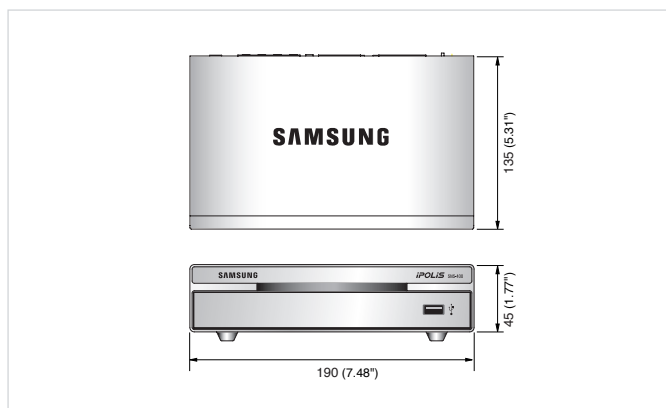
### Technical Specifications

| | | SNS-400 | SNS-100 |
|---|---|---|---|
| **DISPLAY** | | | |
| Video | Video Signal | NTSC / PAL | |
| | Resolution | Up to 704 x 480(N) / Up to 704 x 576(P) | |
| | Inputs | 4 BNC | 1 BNC |
| | Outputs | 1 BNC | 1 BNC |
| **ENCODING** | | | |
| Encode Rate | Compression | MPEG-4 / JPEG selectable | |
| | Record Rate | Up to 30fps@704 x 480(N) | Up to 30fps@704 x 480(N) |
| | | Up to 60fps@704 x 240(N) | Up to 30fps@704 x 240(N) |
| | | Up to 120fps@352 x 240(N) | Up to 30fps@352 x 240(N) |
| | | Up to 25fps@704 x 576(P) | Up to 25fps@704 x 576(P) |
| | | Up to 50fps@704 x 240(P) | Up to 25fps@704 x 240(P) |
| | | Up to 100fps@352 x 240(P) | Up to 25fps@352 x 240(P) |
| Security | Password Protection | 5 User level | |
| | Image Authentication | N/A | |
| **INTERFACE** | | | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | PTZ control Interface | RS-485/422 | |
| | Serial Interface | RS-232C | |
| | USB | 1 USB 2.0 port for storing events | |
| Audio | Inputs | 1 Line in, 30K ohm | |
| | Output | 1 Line, 100K ohm | |
| | Compression | ADPCM | |
| | Sampling Rate | 8KHz | |
| Alarm Handling | Inputs | Terminal 4 inputs, NO/NC | Terminal 2 inputs, NO/NC |
| | Outputs | Terminal 4 relay outputs, NO/NC | Terminal 2 relay outputs, NO/NC |
| | Remote Notification | Via e-mail or FTP | |
| Network | Transmission Speed | Up to 100Mbps | |
| | Bandwidth Control | Automatic | |
| | Max. Remote Users | 20 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP | |
| Dome Protocols | Supported PTZ Cameras | Samsung Techwin, Pelco D, Pelco P, Panasonic, SEC, SRX | |
| **GENERAL** | | | |
| Input Voltage | Power Input | 12V DC 1.5A power supply | |
| | Power Consumption | Max. 12W | Max. 8W |
| Environmental | Operating Temperature | -10°C ~ +50°C (+14°F ~ +122°F) | |
| | Operating Humidity | 30% ~ 80%RH | |
| Mechanical | Dimensions (WxDxH) | 190 x 45 x 135mm (7.48″ x 1.8″ x 5.3″) | |
| | Weight | Approx. 850g (1.87 lb) | Approx. 770g (1.7 lb) |
| Certifications | | FCC (Class A), CE (Class A) | |

# SNC-1300 NEW

## 1/3″ High Performance Megapixel Network Camera

FC | cULus LISTED | CE

## Overview

The SNC-1300 is our new high performance megapixel network camera equipped with a 1.32 megapixel progressive CCD sensor to deliver a maximum of 1,280 x 960P high resolution images. It also supports MPEG-4 / JPEG duel codes to achieve both a high data compression ratio and clear graphics. Its SD memory card slot enables easy file storage and back up. This high performance network camera is included with a variety of supplementary options such as PoE for easy installation.

**iPOLiS**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1/3″ Color CCD Camera | Mega Pixel | 800TVL | 0.5Lux | Day/Night | Multi-Stream | SD Memory |
| Compression 25fps Transmission | PoE | Dual Codec | Network | OS Embedded Linux | RJ-45 | DUAL POWER |

## Features

- 1.32 Megapixel, 1/3″ Progressive Scan CCD
- Real-time MPEG-4/JPEG dual codec
- Max.VGA 25fps image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- High resolution image : 1,280 x 960P, 1,280 x 720P, 4CIF, CIF
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- A composite output for installation
- Day & Night with ICR (Infrared Cut filter Removal)
- Min. illumination of 0.5Lux@F1.2 (Color)
            0.05Lux@F1.2 (B/W)
- Dual voltage : 24V AC / 12V DC

## Dimensions

Unit : mm (inch)



74 (2.91″)      152 (5.98″)      61 (2.4″)
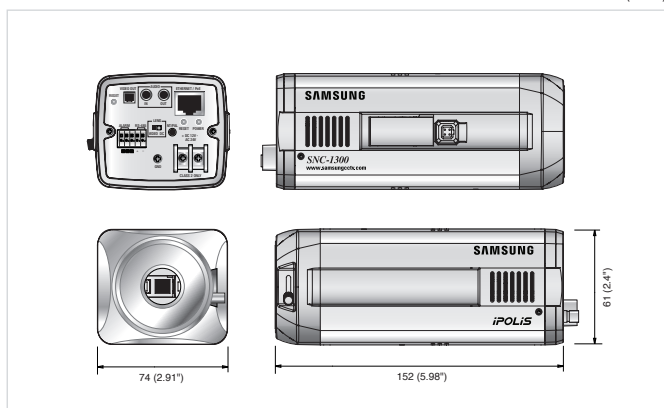
## Technical Specifications

| | SNC-1300 |
|---|---|
| **VIDEO** | |
| Imaging Device | 1/3″ Progressive Scan CCD |
| Total Pixels | 1,348(H) x 976(V), 1.32M pixels |
| Effective Pixels | 1,296(H) x 966(V), 1.25M pixels (Equivalent to 800TV lines Color, 800TV lines B/W) |
| Scanning System | Progressive |
| Min. Illumination | Color : 0.5Lux (50 IRE@F1.2) |
| (Analog Video Output) | B/W : 0.05Lux (50 IRE@F1.2) |
| S / N (Y signal) | 50dB |
| On Screen Display | Built-in (Multi-language support) |
| Camera Title | On / Off |
| Day & Night | Auto (ICR) / Color / B/W |
| Backlight Compensation | On / Off |
| Motion Detection | On / Off (Output via communication) |
| Privacy Masking | On / Off (Area selectable) |
| Sens-up (Frame Integration) | Auto / Off (Selectable limit ~ 128X) |
| Gain Control | High / Low / Off |
| White Balance | ATW / AWC / Manual |
| Lens Control | DC / Video / Manual |

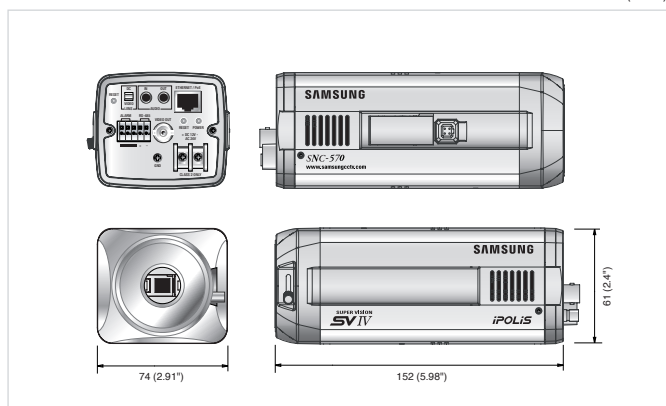| **PERFORMANCE** | | |
|---|---|---|
| Encoding | Resolution | 1,280 x 960P, 1,280 x 720P, 4CIF, CIF |
| | Compression | MPEG-4 / JPEG dual codec |
| | Encode Rate | Up to 20fps@1,280 x 960P, Up to 25fps@1,280 x 720P |
| Network | Transmission Speed | Up to 100Mbps |
| | Max. Remote Users | 5 Simultaneously (Depending on image quality) |
| | Protocol Support | RTP/UDP, RTP/TCP, RTSP, RTCP, IGMP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP |
| Security | Password Protection | 5 User level |

| **INTERFACE** | | |
|---|---|---|
| Monitor | Output | 1 CVBS (For installation) |
| Audio | Input | 1 Line / MIC in, Mono, 1Vpp, 5.6K ohm |
| | Output | 1 Line out, 1Vpp |
| | Compression | ADPCM |
| | Sampling Rate | 8KHz |
| Alarm | Inputs | Terminal 1 input, NO/NC |
| | Outputs | Terminal 1 output, NO/NC |
| | Remote Notification | Via e-mail or FTP |
| Connections | Ethernet | RJ-45 10/100 Base-T |
| | PTZ Control Interface | RS-485 |
| Storage | SD(SDHC) Memory | Stored event image, Back up |

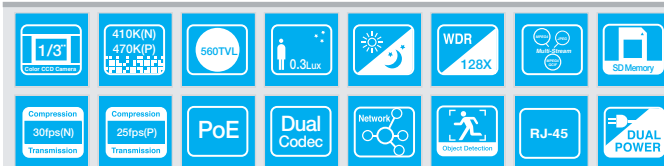| **GENERAL** | |
|---|---|
| Input Voltage | Dual (12V DC/ 24V AC), PoE (IEEE 802.3af) |
| Power Consumption | Max. 8.5W |
| Operating Temperature | -10°C ~ +50°C (+14°F ~ +122°F) |
| Operating Humidity | 30% ~ 80% RH |
| Dimension (WxHxD) | 74 x 61 x 152mm (2.91″ x 2.4″ x 5.98″) |
| Weight | 580g (1.28 lb) |
| Lens Mount | C / CS |
| Certifications | FCC (Class A), UL/cUL listed, CE (Class A) |

**NETWORK PRODUCT**

REVISED 10-2009

# SNC-570

## 1/3" High Performance WDR Network Camera

FC    cULus LISTED    CE

### Overview

The SNC-570 is the newest edition of Samsung Techwin's network ready feature-rich camera using the latest SV-IV DSP chipset and the advanced network codec chipset allowing for high quality images and multiple network capabilities at the same time. It supports MPEG-4 and JPEG dual codec capability, a de-interlacing feature and a SD memory card slot for event data recording, and back up. It also ensures users enjoy real-time video monitoring in any circumstances with the excellent 2 codec and 6 transcoder streaming solution. The SNC-570 offers both Dual voltage plus Power over Ethernet capability making it easy to install for user.

**B** Acknowledged as 'Recommended'
**by Benchmark Magazine's** Independent Testing

iPOLiS    SV IV    SSNRII
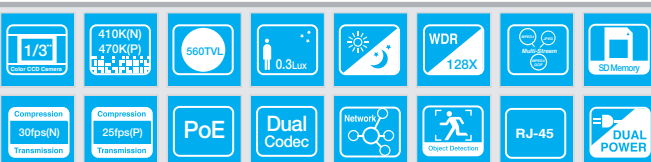
| 1/3" Color CCD Camera | 410K(N) 470K(P) | 560TVL | 0.3Lux | (day/night) | WDR 128X | Multi-Stream | SD Memory |
|---|---|---|---|---|---|---|---|
| Compression 30fps(N) Transmission | Compression 25fps(P) Transmission | PoE | Dual Codec | Network | Object Detection | RJ-45 | DUAL POWER |

### Features

- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution image : 704 x 480, 352 x 240, 176 x 120(N)
                                      704 x 576, 352 x 288, 176 x 144(P)
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- Network management software (SVM-S1, SNM-128S/P)
- High resolution of 560TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- Powerful 128X WDR function : Max. 52dB
- Min. illumination of 0.3Lux@F1.2 (Color)
                            0.01Lux@F1.2 (B/W)
                            0.001Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

### Dimensions

Unit : mm (inch)

SAMSUNG
SNC-570
www.samsungcctv.com

SAMSUNG
super vision SV IV    iPOLiS

61 (2.4")
74 (2.91")
152 (5.98")

### Technical Specifications

| | | SNC-570N | SNC-570P |
|---|---|---|---|
| **VIDEO** | | | |
| Imaging Device | | 1/3" Vertical double density interline CCD | |
| Total Pixels | | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | | 768(H) x 494(V) | 752(H) x 582(V) |
| Scanning System | | 2 : 1 Interlace | |
| Frequency | | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | | Color : 560TV lines (Min.), B/W : 700TV lines (Min.) | |
| Min. Illumination | | Color : 0.3Lux (50 IRE@F1.2), 0.001Lux (Sens-up, 256X) B/W : 0.01Lux (50 IRE@F1.2) | |
| S / N (Y signal) | | 52dB | |
| On Screen Display | | Built-in (Multi-language support) | |
| Camera Title | | On / Off | |
| Day & Night | | Auto (ICR) / Color / B/W | |
| Backlight Compensation | | WDR / BLC / HLC / Off | |
| Dynamic Range | | 52dB | |
| Motion Detection | | On / Off (Output via communication) | |
| Digital Image Stabilization | | On / Off | |
| Privacy Masking | | On / Off (8 Programmable zones) | |
| 3D Noise Filter (SSNRII) | | On / Off (Level adjustable) | |
| Sens-up (Frame Integration) | | Auto / Off (Selectable limit ~ 256X) | |
| Gain Control | | High / Low / Off | |
| White Balance | | ATW / AWC / Manual / Indoor / Outdoor | |
| Electronic Shutter Speed | | Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK | |
| **PERFORMANCE** | | | |
| Encoding | Resolution | Up to 704 x 480 | Up to 704 x 576 |
| | Compression | MPEG-4 / JPEG dual codec | |
| | Encode Rate | Up to 30fps@704 x 480 | Up to 25fps@704 x 576 |
| Network | Transmission Speed | Up to 100Mbps | |
| | Max. Remote Users | 20 Simultaneously | |
| | Protocol Support | RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP | |
| | Video Analytics | Object detection (Missing object) | |
| Security | Password Protection | 5 User level | |
| **INTERFACE** | | | |
| Monitor | Output | 1 BNC (560TV lines) | |
| Audio | Input | 1 Line / MIC in, Mono, 1Vpp, 5.6K ohm | |
| | Output | 1 Line out, 1Vpp | |
| | Compression | ADPCM | |
| | Sampling Rate | 8KHz | |
| Alarm | Inputs | Terminal 1 input, NO/NC | |
| | Outputs | Terminal 1 output, NO/NC | |
| | Remote Notification | Via e-mail or FTP | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | PTZ Control Interface | RS-485 | |
| Storage | SD(SDHC) Memory | Stored event image, Back up | |
| **GENERAL** | | | |
| Input Voltage | | Dual (12V DC/ 24V AC), PoE (IEEE 802.3af) | |
| Power Consumption | | Max. 8.5W | |
| Operating Temperature | | -10°C ~ +50°C (+14°F ~ +122°F) | |
| Operating Humidity | | 30% ~ 80% RH | |
| Dimension (WxHxD) | | 74 x 61 x 152mm (2.91" x 2.4" x 5.98") | |
| Weight | | 580g (1.28 lb) | |
| Lens Mount | | C / CS | |
| Certifications | | FCC (Class A), UL/cUL listed | CE (Class A) |

REVISED 10-2009

# SND-560

## 1/3″ High Performance WDR Network Dome Camera

FC  cULus LISTED  CE

### Overview

The SND-560 network camera uses the latest SV-IV DSP and advanced network codec chipset to deliver high-quality images and multiple network capabilities. It offers 6 different types of image resolutions and qualities to transfer, depending on the local network environment, and supports intelligent image analysis as well as SD memory. Integrated with a vari-focal lens and 3-axis dome, this camera is easy to install.

iPOLiS    SVIV    SSNRII

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1/3″ Color CCD Camera | 410K(N) 470K(P) | 560TVL | 0.3Lux | | WDR 128X | Multi-Stream | SD Memory |
| Compression 30fps(N) Transmission | Compression 25fps(P) Transmission | PoE | Dual Codec | Network | Object Detection | RJ-45 | DUAL POWER |

### Features

- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution image : 704 x 480, 352 x 240, 176 x 120(N)
                                          704 x 576, 352 x 288, 176 x 144(P)
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- Network management software (SVM-S1, SNM-128S/P)
- A composite output for installation
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- Powerful 128X WDR function : Max. 52dB
- Min. illumination of 0.3Lux@F1.2 (Color)
                             0.01Lux@F1.2 (B/W)
                             0.001Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

### Dimensions

Unit : mm (inch)

Ø132.4 (5.21")
144.2 (5.68")
Ø96 (3.78")
Ø132.4 (5.21")
Ø132.4 (5.21")

### Technical Specifications

| | SND-560N | SND-560P |
|---|---|---|
| **VIDEO** | | |
| Imaging Device | 1/3″ Vertical double density interline CCD | |
| Total Pixels | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | 768(H) x 494(V) | 752(H) x 582(V) |
| Scanning System | 2 : 1 Interlace | |
| Frequency | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | Color : 560TV lines (Min.), B/W : 700TV lines (Min.) | |
| Min. Illumination | Color : 0.3Lux (50 IRE@F1.2), 0.001Lux (Sens-up, 256X) B/W : 0.01Lux (50 IRE@F1.2) | |
| S / N (Y signal) | 52dB | |
| On Screen Display | Built-in (Multi-language support) | |
| Camera Title | On / Off | |
| Day & Night | Auto (ICR) / Color / B/W | |
| Backlight Compensation | WDR / BLC / HLC / Off | |
| Dynamic Range | 52dB | |
| Motion Detection | On / Off (Output via communication) | |
| Digital Image Stabilization | On / Off | |
| Privacy Masking | On / Off (8 Programmable zones) | |
| 3D Noise Filter (SSNRII) | On / Off (Level adjustable) | |
| Sens-up (Frame Integration) | Auto / Off (Selectable limit ~ 256X) | |
| Gain Control | High / Low / Off | |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor | |
| Electronic Shutter Speed | Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK | |
| **LENS** | | |
| Zoom Ratio | 3.6X (Manual) | |
| Focal Length | 2.8 ~ 10mm (F1.2) | |
| Max. Aperture Ratio | 1 : 1.2(Wide) ~ 2.8(Tele) | |
| Min. Object Distance | 0.2m (0.66ft) | |
| Angular Field of View | H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele) | |
| Focus | Manual | |
| Iris Control | Auto | |
| **PAN / TILT / ROTATE** | | |
| Pan Range | 0° ~ 340° | |
| Tilt Range | 0° ~ 146° | |
| Rotate Range | 0° ~ 340° | |
| **PERFORMANCE** | | |

| | | SND-560N | SND-560P |
|---|---|---|---|
| Encoding | Resolution | Up to 704 x 480 | Up to 704 x 576 |
| | Compression | MPEG-4 / JPEG dual codec | |
| | Encode Rate | Up to 30fps@704 x 480 | Up to 25fps@704 x 576 |
| Network | Transmission Speed | Up to 100Mbps | |
| | Max. Remote Users | 20 Simultaneously | |
| | Protocol Support | RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP | |
| Security | Video Analytics | Object detection (Missing object) | |
| | Password Protection | 5 User level | |
| **INTERFACE** | | | |
| Monitor | Output | 1 CVBS (For installation) | |
| Audio | Input | 1 Line / MIC in, Mono, 1Vpp, 5.6K ohm | |
| | Output | 1 Line out, 1Vpp | |
| | Compression | ADPCM | |
| | Sampling Rate | 8KHz | |
| Alarm | Inputs | Terminal 1 input, NO/NC | |
| | Outputs | Terminal 1 output, NO/NC | |
| | Remote Notification | Via e-mail or FTP | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | PTZ Control Interface | RS-485 | |
| Storage | SD(SDHC) Memory | Stored event image, Back up | |
| **GENERAL** | | | |
| Input Voltage | | Dual (12V DC/ 24V AC), PoE (IEEE 802.3af) | |
| Power Consumption | | Max. 8.5W | |
| Operating Temperature | | -10°C ~ +50°C (+14°F ~ +122°F) | |
| Operating Humidity | | 30% ~ 80% RH | |
| Dimension (WxH) | | Ø132.4 x 144.2mm (Ø5.21" x 5.68") | |
| Weight | | 880g (1.94 lb) | |
| Certifications | | FCC (Class A), UL/cUL listed | CE (Class A) |

NETWORK PRODUCT

REVISED 10-2009
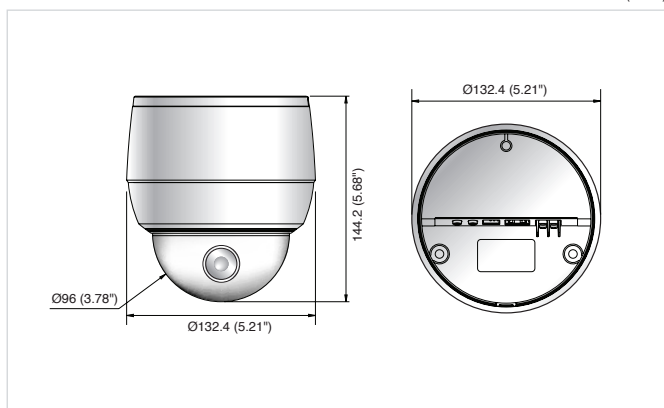
# SND-460V

## 1/3″ High Performance Vandal-Resistant Network Dome Camera

FC | cULus LISTED | CE

### Overview

The SND-460V high resolution network Vandal resistant dome camera achieves vivid graphics at 580TV lines resolution. This camera delivers noise-free images at ultra low light levels of 0.15Lux. Encased in a sturdy aluminum chassis, its durability is unparalleled. With MPEG-4/JPEG dual codecs, it transfers VGA high resolution videos at 30fps in real time. Its video analysis system is highly intelligent, capturing all objects coming in and out of view. In addition, a multiple language OSD and DIS (Digital Image Stabilization) options are provided for an enhanced user experience.

iPOLiS  WIV  SSNRII

| 1/3″ Color CCD Camera | 410K(N) 470K(P) | 580TVL | 0.15Lux | ☀🌙 | HLC | Multi-Stream | SD Memory |
| Compression 30fps(N) Transmission | Compression 25fps(P) Transmission | PoE | Dual Codec | Network | Object Detection | RJ-45 | DUAL POWER |

### Features

- Real-time MPEG-4/JPEG dual codec
- Max.VGA 30fps(N) / Max.VGA 25fps(P) image transmission
- Multi-stream and Multi-cast capability
- De-interlacing support, Power over Ethernet
- SD memory slot for stored event image & back up
- Capable of detecting object appearing and disappearing
- High resolution image : 704 x 480, 352 x 240, 176 x 120(N)
        704 x 576, 352 x 288, 176 x 144(P)
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- Support TCP/IP, DHCP, HTTP, DDNS, RTP/UDP and RTSP protocols
- FTP server & E-mail sending, Continuous FTP data transmission
- Network management software (SVM-S1, SNM-128S/P)
- A composite output for installation
- Day & Night with ICR (Infrared Cut filter Removal)
- Removed noise & Ghost images with SSNRII
- HLC (Highlight Compensation)   • IP66 Protection against rain & wind
- Rugged, high impact polycarbonate dome cover and aluminum body
- Min. illumination of 0.15Lux@F1.2 (Color)
        0.01Lux@F1.2 (B/W)
        0.0006Lux@F1.2 (Sens-up)
- Dual voltage : 24V AC / 12V DC, PoE

### Dimensions

Unit : mm (inch)

Ø150 (5.91")
151 (5.94")
85 (3.35")
85 (3.35")
83.5 (3.29")
46 (1.81")

## Technical Specifications

| | | SND-460VN | SND-460VP |
|---|---|---|---|
| **VIDEO** | | | |
| Imaging Device | | 1/3" Super HAD CCD | |
| Total Pixels | | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | | 768(H) x 494(V) | 752(H) x 582(V) |
| Scanning System | | 2 : 1 Interlace | |
| Frequency | | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | | Color : 580TV lines (Min.), B/W : 700TV lines (Min.) | |
| Min. Illumination | | Color : 0.15Lux (50 IRE@F1.2), 0.0006Lux (Sens-up, 256X) B/W : 0.01Lux (50 IRE@F1.2) | |
| S / N (Y signal) | | 52dB | |
| On Screen Display | | Built-in (Multi-language support) | |
| Camera Title | | On / Off | |
| Day & Night | | Auto (ICR) / Color / B/W | |
| Backlight Compensation | | BLC / HLC / Off | |
| Dynamic Range | | 52dB | |
| Motion Detection | | On / Off (Output via communication) | |
| Digital Image Stabilization | | On / Off | |
| Privacy Masking | | On / Off (8 Programmable zones) | |
| 3D Noise Filter (SSNRII) | | On / Off (Level adjustable) | |
| Sens-up (Frame Integration) | | Auto / Off (Selectable limit ~ 256X) | |
| Gain Control | | High / Low / Off | |
| White Balance | | ATW / AWC / Manual / Indoor / Outdoor | |
| Electronic Shutter Speed | | Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK | |
| **LENS** | | | |
| Zoom Ratio | | 3.6X (Manual) | |
| Focal Length | | 2.8 ~ 10mm (F1.2) | |
| Max. Aperture Ratio | | 1 : 1.2(Wide) ~ 2.8(Tele) | |
| Min. Object Distance | | 0.2m (0.66ft) | |
| Angular Field of View | | H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele) | |
| Focus | | Manual | |
| Iris Control | | Auto | |
| **PAN / TILT / ROTATE** | | | |
| Pan Range | | 0° ~ 340° | |
| Tilt Range | | 0° ~ 146° | |
| Rotate Range | | 0° ~ 340° | |
| **PERFORMANCE** | | | |
| Encoding | Resolution | Up to 704 x 480 | Up to 704 x 576 |
| | Compression | MPEG-4 / JPEG dual codec | |
| | Encode Rate | Up to 30fps@704 x 480 | Up to 25fps@704 x 576 |
| Network | Transmission Speed | Up to 100Mbps | |
| | Max. Remote Users | 20 Simultaneously | |
| | Protocol Support | RTP/UDP, RTP/Multicast, RTSP, TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP, PPPoE and NTP | |
| | Video Analytics | Object detection (Missing object) | |
| Security | Password Protection | 5 User level | |
| **INTERFACE** | | | |
| Monitor | Output | 1 CVBS (For installation) | |
| Audio | Input | 1 Line / MIC in, Mono, 1Vpp, 5.6K ohm | |
| | Output | 1 Line out, 1Vpp | |
| | Compression | ADPCM | |
| | Sampling Rate | 8KHz | |
| Alarm | Inputs | Terminal 1 input, NO/NC | |
| | Outputs | Terminal 1 output, NO/NC | |
| | Remote Notification | Via e-mail or FTP | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| | PTZ Control Interface | RS-485 | |
| Storage | SD(SDHC) Memory | Stored event image, Back up | |
| **GENERAL** | | | |
| Input Voltage | | Dual (12V DC/ 24V AC), PoE (IEEE 802.3af) | |
| Power Consumption | | Max. 8.5W | |
| Operating Temperature | | -10°C ~ +50°C (+14°F ~ +122°F) | |
| Operating Humidity | | 30% ~ 80% RH | |
| Dimension (WxH) | | Ø150 x 151mm (Ø5.91" x 5.94") | |
| Weight | | 1.8Kg (3.97 lb) | |
| Ingress Protection | | IP66 | |
| Certifications | | FCC (Class A), UL/cUL listed | CE (Class A) |

REVISED 10-2009
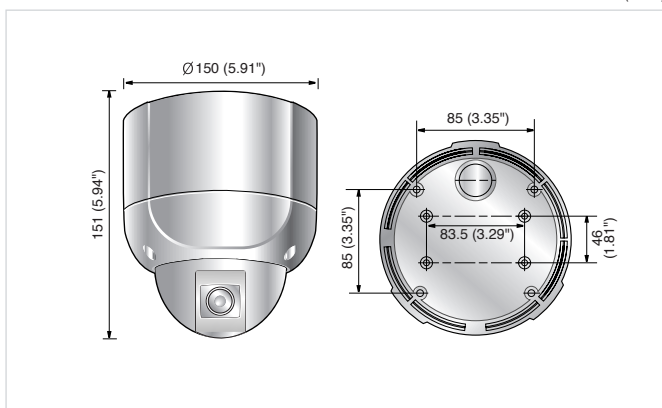
# SNP-3300A

## 1/4″ 30X Low Light WDR PTZ Network Dome Camera

FC | cULus LISTED | CE

## Overview

The SPD-3300A is a network ready high performance 30X PTZ camera that incorporates the SV-Ⅲ DSP engine at its heart. It's equipped with a 30X (3.3 ~ 99mm) optical zoom lenses and a 8X digital zoom, which gives a total zoom capability of up to 240X. It provides seamless network integration coupled with Samsung Techwin's high imaging quality giving you the best network camera solutions.
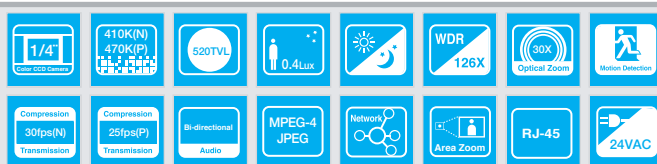
iPOLiS　SVⅢ　SSNR

| 1/4″ Color CCD Camera | 410K(N) 470K(P) | 520TVL | 0.4Lux | | WDR 126X | 30X Optical Zoom | Motion Detection |
| Compression 30fps(N) Transmission | Compression 25fps(P) Transmission | Bi-directional Audio | MPEG-4 JPEG | Network | Area Zoom | RJ-45 | 24VAC |

## Features

- Real-time MPEG-4/JPEG compression
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Area zoom support
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
  704 x 576, 704 x 288, 352 x 288(P)
- Sensor 4 in / 2 out, bi-directional audio support
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending, analog output support
- Network management software (SVM-S1, SNM-128S/P)
- Powerful 30X optical zoom (3.3 ~ 99mm) and 8X digital zoom
- High resolution of 520TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Powerful 126X WDR function : Max. 52dB
- Min. illumination of 0.4Lux@F1.6 (Color)
  0.08Lux@F1.6 (B/W)
  0.003Lux@F1.6 (Sens-up)
- Programmable 128 presets
- Voltage : 24V AC

## Dimensions

Unit : mm (inch)

Ø155 (6.1")
27.7 (1.09")
243.4 (9.58")
215.7 (8.49")
Ø155 (6.1")
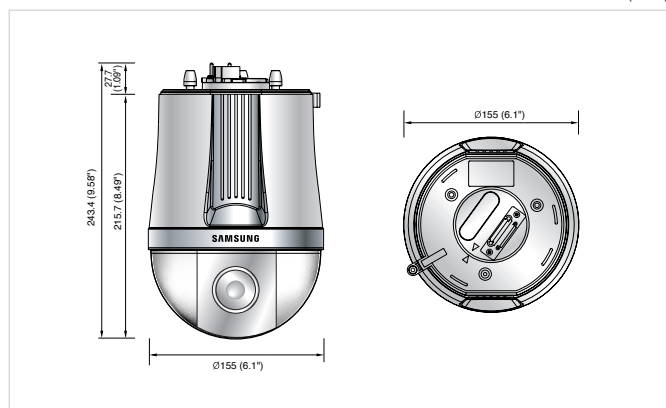
## Technical Specifications

| | | SNP-3300AN | SNP-3300AP |
|---|---|---|---|
| **VIDEO** | | | |
| Imaging Device | | 1/4″ Vertical double density interline CCD | |
| Total Pixels | | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | | 768(H) x 494(V) | 752(H) x 582(V) |
| Scanning System | | 2 : 1 Interlace | |
| Frequency | | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | | Color : 520TV lines (Min.), B/W : 570TV lines (Min.) | |
| Min. Illumination | | Color : 0.4Lux (50 IRE@F1.6), 0.003Lux (Sens-up, 128X) B/W : 0.08Lux (50 IRE@F1.6) | |
| S / N (Y signal) | | 52dB | |
| On Screen Display | | Built-in | |
| Camera Title | | On / Off | |
| Camera ID | | 253 | |
| Day & Night | | Auto (ICR) / Color / B/W | |
| Backlight Compensation | | On / Off | |
| Dynamic Range | | 52dB | |
| Motion Detection | | On / Off (Output via communication) | |
| Privacy Function | | On / Off (8 Programmable zones) | |
| Noise Filter (SSNR) | | Low / Medium / High / Off | |
| Sens-up (Frame Integration) | | On / Off (Selectable limit ~ 128X) | |
| Gain Control | | Low / Medium / High / Manual / Off | |
| White Balance | | ATW (Indoor / Outdoor) / AWC / Manual | |
| Electronic Shutter Speed | | Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK | |
| **LENS** | | | |
| Zoom Ratio | | 30X (Optical), 8X (Digital) | |
| Focal Length | | 3.3 ~ 99mm (F1.6 ~ 3.2) | |
| Max. Aperture Ratio | | 1 : 1.6(Wide) ~ 3.2(Tele) | |
| Min. Object Distance | | 1.2m (3.94ft) | |
| Angular Field of View | | H : 58°(Wide) ~ 2.22°(Tele) / V : 44.8°(Wide) ~ 1.68°(Tele) | |
| Focus | | Auto / Manual / One-push | |
| Zoom Movement Speed | | 5.2sec | |
| IRIS Control | | Auto / Manual | |
| **PAN / TILT** | | | |
| Panning Range | | 360° Endless | |
| Panning Speed | | Preset : 240°/sec / Manual : 0.5°~120°/sec (Proportional zoom ratio) | |
| Tilting Range | | -4° ~ 184° | |
| Tilting Speed | | Preset : 240°/sec / Manual : 0.5°~120°/sec (Proportional zoom ratio) | |
| Preset Positions | | 128 | |
| Preset Accuracy | | ±0.3° | |
| PTZ Mode | | Preset, Swing, Group, Tour, Trace, A. Pan | |
| **PERFORMANCE** | | | |
| Encoding | Resolution | Up to 704 x 480 | Up to 704 x 576 |
| | Compression | MPEG-4 / JPEG selectable | |
| | Encode Rate | Up to 30fps@704 x 480 | Up to 25fps@704 x 576 |
| Network | Transmission Speed | Up to 100Mbps | |
| | Max. Remote Users | 20 Simultaneously | |
| | Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP | |
| | Area Zoom | Web viewer, SVM-S1, SNM-128S/P (CMS) | |
| Security | Password Protection | 5 User level | |
| **INTERFACE** | | | |
| Monitor | Output | 1 BNC (520TV lines) | |
| Audio | Input | 1 Line / MIC in, Mono, 1Vpp | |
| | Output | 1 Line out, Line level, 1Vpp | |
| | Compression | ADPCM | |
| | Sampling Rate | 8KHz | |
| Alarm | Inputs | Terminal 4 input, NO/NC | |
| | Outputs | Terminal 2 output, NO/NC | |
| | Remote Notification | Via e-mail or FTP | |
| Connections | Ethernet | RJ-45 10/100 Base-T | |
| Storage | SD(SDHC) Memory | N/A | |
| **GENERAL** | | | |
| Input Voltage | | 24V AC | |
| Power Consumption | | Max. 10W | |
| Operating Temperature | | -10°C ~ +50°C (+14°F ~ +122°F) | |
| Operating Humidity | | 20% ~ 80% RH | |
| Dimension (WxH) | | Ø155 x 243.4mm (Ø6.1" x 9.58") | |
| Weight | | 2Kg (4.41 lb) | |
| Ingress Protection | | IP67 (Optional housing) | |
| Certifications | | FCC (Class A), cUL | CE (Class A) |

NETWORK PRODUCT

# SNP-1000A

## 1/4" 10X High Resolution PTZ Network Dome Camera
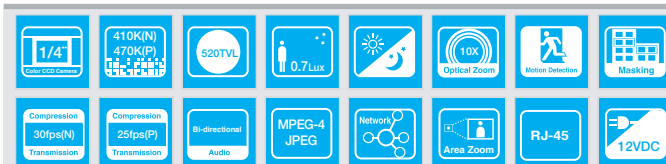
FC | CE

### Overview

The SNP-1000A is a network ready indoor variable speed PTZ camera system that is powerful yet economical. It provides 10X zoom capability with a rich set of system features that make it the right choice for a wide variety of indoor applications. It provides both MPEG-4 and JPEG compression coupled with real-time image transmission making an ideal solution for your network video security system.

iPOLiS  WIII  SSNR

**Feature icons:** 1/4" Color CCD Camera · 410K(N) 470K(P) · 520TVL · 0.7Lux · Day/Night · 10X Optical Zoom · Motion Detection · Masking · Compression 30fps(N) Transmission · Compression 25fps(P) Transmission · Bi-directional Audio · MPEG-4 JPEG · Network · Area Zoom · RJ-45 · 12VDC

### Features

- Real-time MPEG-4/JPEG compression
- Max. VGA 30fps(N) / Max. VGA 25fps(P) image transmission
- Area zoom support
- High resolution image : 704 x 480, 704 x 240, 352 x 240(N)
  704 x 576, 704 x 288, 352 x 288(P)
- Sensor 2 in / 1 out, bi-directional audio support
- Static / Dynamic IP support / Ethernet 10/100 Base-T capability
- TCP/IP, DHCP, HTTP, DDNS etc protocol
- FTP server & E-mail sending, analog output support
- Network management software (SVM-S1, SNM-128S/P)
- Powerful 10X optical zoom (3.8 ~ 38mm) and 10X digital zoom
- High resolution of 520TV lines of a composite output
- Day & Night with ICR (Infrared Cut filter Removal)
- Using the SSNR technology, removed noise & ghost images
- Min. illumination of 0.7Lux@F1.8 (Color)
  0.02Lux@F1.8 (B/W)
  0.005Lux@F1.8 (Sens-up)
- Programmable 128 Presets
- Voltage : 12V DC

### Dimensions

Unit : mm (inch)

Ø140 (5.51")

134.8 (5.31")
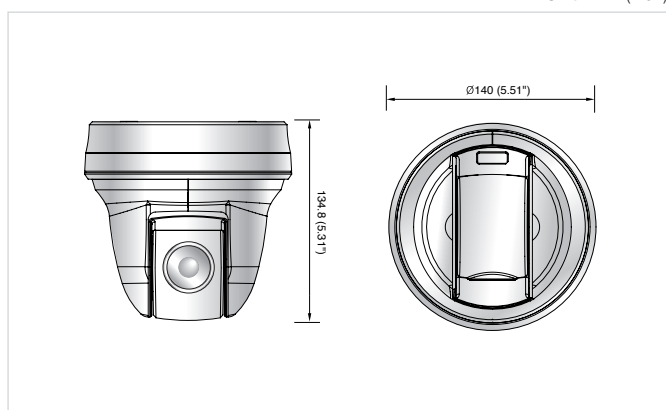
### Technical Specifications

| | SNP-1000AN | SNP-1000AP |
|---|---|---|
| **VIDEO** | | |
| Imaging Device | 1/4" Interline transfer CCD | |
| Total Pixels | 811(H) x 508(V) | 795(H) x 596(V) |
| Effective Pixels | 768(H) x 494(V) | 752(H) x 582(V) |
| Scanning System | 2 : 1 Interlace | |
| Frequency | H : 15.734KHz / V : 59.94Hz | H : 15.625KHz / V : 50Hz |
| Horizontal Resolution | Color : 520TV lines (Min.), B/W : 570TV lines (Min.) | |
| Min. Illumination | Color : 0.7Lux (50 IRE@F1.8), 0.005Lux (Sens-up, 128X) B/W : 0.02Lux (50 IRE@F1.8) | |
| S / N (Y signal) | 50dB | |
| On Screen Display | Built-in | |
| Camera Title | On / Off | |
| Camera ID | 253 | |
| Day & Night | Auto (ICR) / Color / B/W | |
| Backlight Compensation | On / Off | |
| Motion Detection | On / Off (Output via communication) | |
| Privacy Function | On / Off (4 Programmable zones) | |
| Noise Filter (SSNR) | Low / Medium / High / Off | |
| Sens-up (Frame Integration) | On / Off (Selectable limit ~ 128X) | |
| Gain Control | Low / Medium / High / Manual / Off | |
| White Balance | ATW (Indoor / Outdoor) / AWC / Manual | |
| Electronic Shutter Speed | Auto (NTSC : 1/60 ~ 1/120,000sec, PAL : 1/50 ~ 1/120,000) / Manual / A.FLK | |
| **LENS** | | |
| Zoom Ratio | 10X (Optical), 10X (Digital) | |
| Focal Length | 3.8 ~ 38mm (F1.8) | |
| Max. Aperture Ratio | 1 : 1.6(Wide) ~ 2.8(Tele) | |
| Min. Object Distance | 1.5m (4.92ft) | |
| Angular Field of View | H : 51.2°(Wide) ~ 5.58°(Tele) / V : 39.3°(Wide) ~ 4.27°(Tele) | |
| Focus | Auto / Manual / One-push | |
| Zoom Movement Speed | 1.67sec | |
| IRIS Control | Auto / Manual | |
| **PAN / TILT** | | |
| Panning Range | 350° | |
| Panning Speed | Preset : 140°/sec / Manual : 0.5° ~ 70°/sec | |
| Tilting Range | -5° ~ 185° | |
| Tilting Speed | Preset : 100°/sec / Manual : 0.5° ~ 50°/sec | |
| Preset Positions | 128 | |
| Preset Accuracy | ±1.0° | |
| PTZ Mode | Preset, Swing, Group, Tour, Trace, A. Pan | |
| **PERFORMANCE** | | |
| Encoding — Resolution | Up to 704 x 480 | Up to 704 x 576 |
| Encoding — Compression | MPEG-4 / JPEG selectable | |
| Encoding — Encode Rate | Up to 30fps@704 x 480 | Up to 25fps@704 x 576 |
| Network — Transmission Speed | Up to 100Mbps | |
| Network — Max. Remote Users | 20 Simultaneously | |
| Network — Protocol Support | TCP/IP, DHCP, DNS, DDNS, HTTP, SMTP, FTP and NTP | |
| Network — Area Zoom | Web viewer, SVM-S1, SNM-128S/P (CMS) | |
| Security — Password Protection | 5 User level | |
| **INTERFACE** | | |
| Monitor — Output | 1 BNC (520TV lines) | |
| Audio — Input | 1 Line / MIC in, Mono, 1Vpp | |
| Audio — Output | 1 Line out, Line level, 1Vpp | |
| Audio — Compression | ADPCM | |
| Audio — Sampling Rate | 8KHz | |
| Alarm — Inputs | Terminal 2 input, NO/NC | |
| Alarm — Outputs | Terminal 1 output, NO/NC | |
| Alarm — Remote Notification | Via e-mail or FTP | |
| Connections — Ethernet | RJ-45 10/100 Base-T | |
| Storage — SD(SDHC) Memory | N/A | |
| **GENERAL** | | |
| Input Voltage | 12V DC | |
| Power Consumption | Max. 6W | |
| Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F) | |
| Operating Humidity | 20% ~ 75% RH | |
| Dimension (WxH) | Ø140 x 134.8mm (Ø5.51" x 5.31") | |
| Weight | 0.85Kg (1.87 lb) | |
| Ingress Protection | IP67 (Optional housing) | |
| Certifications | FCC (Class A) | CE (Class A) |

# SVM-S1  NEW

## Centralized Video Management Software

### Overview

The SVM-S1 (Samsung Video Management Standard 1)'s CMS software is specifically designed to centrally manage our network products. Capable of monitoring up to 64 channels in real time, this program helps establish an effective network management system with its PTZ control, various events, alarm managing options, and two-way audio as well as graphic maps for convenient monitoring.

iPOLiS

### Features

- Up to 64 channels real-time live monitoring
- Support up to 4 VGA output (2 mains / 1 map / 1 playback)
- Register 2,047 devices and control up to 64 stream simultaneously
- PTZ, bi-directional audio, sensor / relay
- Digital zoom on live monitor / playback
- Graphic MAP image support

### Various remote control supports

The administrator can perform real time screen surveillance, and control PTZ, bi-direction audio and the relay of each piece of equipment.

Internet

### Mapping Support

The SVM-S1 offers a 2D graphical view of your secured area with layering capability allowing users to define various levels of an area such as national map, states, cities, buildings, and sites. The operator can drill down to the map layer to get the actual location of the alerts. In addition, the live video image or recorded image corresponding to the events can be easily checked with a click of a mouse.

### Fast and simple playback and search function

The SVM-S1 gives the ability to quickly search and playback by providing various search options such as time, event, and thumbnail search (depend on devices). The SVM-S1 also provides the ability to record the searched data on to the local computer.

### Technical Specifications

| | | SVM-S1 (Standard) |
|---|---|---|
| Device to Use | Supported Devices | Network Camera : SNC-1300/570, SND-560/460V, SNP-3750/3350/3300A/1000A |
| | | Video Encoder : SNS-400/100 |
| | | DVR : SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450 |
| | | NVR : SNR-6400/3200, SNR-32A/16A/9A(SW) |
| | Max. Register Device | 2,047 |
| Live Monitoring | Multi-monitor | 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen) |
| | Second Monitor Screen | Supported |
| | Launches Instant Player | Pan, Tilt, Zoom, Focus, Preset |
| | Controls PTZ Function | Supported |
| | Digital Zoom in / out on the Image | Supported |
| | Snapshot / Prints Image | Supported |
| Playback | Local (Remote) Playback / Back up | AVI |
| | Converts Video Format | Timeline index search, Thumbnail image search |
| | Calendar Search | Supported |
| | Digital Zoom in / out on the Image | Supported |
| | Snapshot / Prints Image | Supported |
| Event Signal Monitoring | Display | Unnecessary signal |
| | Filtering | Selected device |
| User | Admin / User | Admin : 1 / User : 5 |
| MAP | Live Monitoring | 3 Channel monitors (I-frame) per a MapLayout |
| | Map division | 4 / 9 / 16 / Free |
| | Alarm out / Sensor in | Supported |
| | Number of Map | Maps per a MapLayout : 16,  MapLayout : 3 (Standard) |
| | Supports Image | JPEG / BMP / GIF / PNG |
| System Specifications | | CPU : Intel Core2Duo E6750, RAM : 2GB above |
| | | Video memory : 512MB, HDD : 80GB above |
| | | OS : Window XP/Vista, DirectX 9.0 above |
| | | Display resolution : 1,280 x 1,024 above |
| | | OpenGL compatible |

* The entire items are not supported in every device. Some items are not supported in certain devices.

NETWORK PRODUCT

REVISED 11-2009

# SNM-128P

## Centralized Video Management Software

### Overview

The SNM-128P (Network Manager Professional) CMS software helps to efficiently manage systems by centrally operating Samsung Techwin DVRs and networking products on the same network. It consists of 3 programs. Viewer, Player, and Map Viewer, and provides a variety of convenient video monitoring features, PTZ control, versatile event and alarm controls, two-way audio, recorded and live video monitoring, video replay, and maps.

iPOLiS

### Features

- Up to 128 channels real-time live monitoring
- Support up to 6 VGA output
- Register unlimited devices and control up to 128 stream simultaneously
- PTZ, bi-directional audio, sensor / relay
- Instant video display on alarm and event
- Graphic MAP image support
- Search by time / date and text
- Instant manual recording up to 10 minutes

### Mapping support

The SNM-128P offers a 2D graphical view of your secured area with layering capability allowing users to define various levels of an area such as national map, states, cities, buildings, and sites. The operator can drill down to the map layer to get the actual location of the alerts. In addition, the live video image or recorded image corresponding to the events can be easily checked with a click of a mouse.

### Up to 6 VGA monitor outputs supported

The SNM-128P supports the Microsoft Windows' multi-monitor feature allowing users to use up to 6 monitors to view Live, Playback, Mapping, and Events simultaneously without switching between applications from their PC.

### Accessories

USB Dongle Key

### Technical Specifications

| | | SNM-128P (Professional) |
|---|---|---|
| Device to Use | Supported Devices | Network Camera : SNC-1300/570, SND-560/460V, SNP-3300A/1000A |
| | | Video Encoder : SNS-400/100 |
| | | DVR : SVR-3200/1680C/1660C/1645/960C/945/940/480/470/450 |
| | Max. Register Device | 1000 |
| Live Monitoring | Multi-monitor | Max. 6 |
| | Screen-split Modes | 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen) |
| | Launches Instant Player | DVR only |
| | Controls PTZ Function | Pan, Tilt, Zoom, Focus, Preset |
| | FTP/E-mail Notification | Supported |
| | Snapshot / Prints Image | Supported |
| Playback | Local (Remote) Playback / Back up | Supported |
| | Converts Video Format | AVI |
| | Search | Go to a certain time, Latest data search, Timeline index search, Thumbnail image search |
| | Zooms in/out on the Image | Supported |
| | FTP/E-mail Notification | Supported |
| | Snapshot / Prints Image | Supported |
| Event Signal Monitoring | Display | Current event log on the list, live image, Changes border of live video channel to red |
| | Filtering | Unnecessary signal |
| | Event image Playback | DVR only |
| Alarm Signal Monitoring | Displays | Current alarm log on the list, Live/thumbnail image |
| | Set up | A certain period of time of a day, A certain types of alarms |
| | | Automated notifications to user, Schedules actions against alarms |
| | Event Image Playback | DVR only |
| | Controls Preset on PTZ Camera | Supported |
| | Plays Warning Sound or Message | Supported |
| | FTP/E-mail Notification | Supported |
| | Marks an Alarm as Confirmed | Supported |
| | Provides Space to Write Comments | Supported |
| | Alarm Control Station | Supported |
| User | Group / User | Admin / User : Unlimited |
| MAP | Number of Map | Map group : Unlimited, Sub-Map, Layout : 64 |
| | Supports Image | JPEG / BMP |
| System Specifications | | CPU : Intel Core2Duo E4300, RAM : 2GB above |
| | | Video memory : 256MB, HDD : 80GB |
| | | OS : Window 2000/XP SP2, DirectX 9.0 above |
| | | Display resolution : 1,024 x 768 above |

* The entire items are not supported in every device. Some items are not supported in certain devices.

# SNM-64P

## Centralized Video Management Software

## Overview

The SNM-64, Samsung Network Video Managment Software fully integrates multiple devices and reqister unlimited devices. Not only the SNM-64 gives you the ability to integrate IP video products, it lets you create a hybrid video security system, integrating analogue video and IP-based digital video devices together. Its unique functionality helps users leverage their existing analogue infrastructure.

**iPOLiS**

## Features

- Up to 128 channels real-time live monitoring
- Support up to 3 VGA output
- Register unlimited devices and control up to 128 stream simultaneously
- PTZ, bi-directional audio, sensor / relay
- Instant video display on alarm and event
- Graphic MAP image support
- Search by time / date and text
- Instant manual recording up to 10 minutes

## Various alarm & event control

Experience more convenient surveillance through the alarm/event control of the SNM-64P. The SNP-64P can monitor with pop-up images and lists by receiving event/alarm signals in real time. More effective surveillance is possible by setting the specified actions, e.g. generating warning sound, to be performed when an alarm signal is generated. The alarm control station, which is provided additionally, supports more powerful alarm/event management.

## Alarm control station (Window for alarm status control only)

- Instant viewer, Live image indication
- Instant player, Recorded image playback (DVR only)
- Alarm status check and description phrases writing
- Transmitting image files via FTP server and sending e-mails
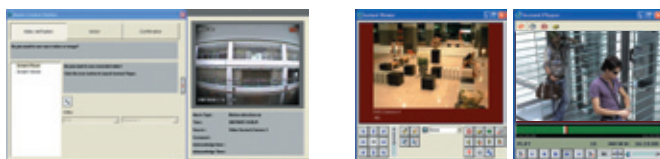
## Accessories

USB Dongle Key

## Technical Specifications

| | | SNM-64P (Professional) |
|---|---|---|
| Device to Use | Supported Devices | Network Camera : SNC-570, SND-560/460V, SNP-3300A/1000A<br>Video Encoder : SNS-400/100 |
| | Max. Register Device | No limit |
| Live Monitoring | Multi-monitor | Max. 3 (Live 2) |
| | Screen-split Modes | 1 / 4 / 6 / 8 / 9 / 16 / 25 / 36 / 49 / 64 (Full-screen) |
| | Launches Instant Player | DVR only |
| | Controls PTZ Function | Pan, Tilt, Zoom, Focus, Preset |
| | FTP/E-mail Notification | Supported |
| | Snapshot / Prints Image | Supported |
| Playback | Local (Remote) Playback / Back up | Supported |
| | Converts Video Format | AVI |
| | Search | Go to a certain time, Latest data search,<br>Timeline index search, Thumbnail image search |
| | Zooms in/out on the Image | Supported |
| | FTP/E-mail Notification | Supported |
| | Snapshot / Prints Image | Supported |
| Event Signal Monitoring | Display | Current event log on the list, live image,<br>Changes border of live video channel to red |
| | Filtering | Unnecessary signal |
| | Event image Playback | DVR only |
| Alarm Signal Monitoring | Displays | Current alarm log on the list, Live/thumbnail image |
| | Set up | A certain period of time of a day, A certain types of alarms<br>Automated notifications to user, Schedules actions against alarms |
| | Event Image Playback | DVR only |
| | Controls Preset on PTZ Camera | Supported |
| | Plays Warning Sound or Message | Supported |
| | FTP/E-mail Notification | Supported |
| | Marks an Alarm as Confirmed | Supported |
| | Provides Space to Write Comments | Supported |
| | Alarm Control Station | Supported |
| User | Group / User | Group / User : No limit |
| MAP | Number of Map | Map group : No limit, Layers : 16, Maps : 64 |
| | Supports Image | JPEG / BMP |
| System Specifications | | CPU : Intel Core2Duo E4300, RAM : 2GB above<br>Video memory : 256MB, HDD : 80GB<br>OS : Window 2000/XP SP2, DirectX 9.0 above<br>Display resolution : 1,024 x 768 above |

\* The entire items are not supported in every device. Some items are not supported in certain devices.

NETWORK PRODUCT

# SNR-32A/16A/9A

## 32/16/9 Channel Network Recording Software

### Overview

The SNR-32A/16A/9A is a feature-rich network recording software. It can record up to 32 units of IP products and is compatible with the SNM-64S/P, Samsung Network Manager. The network recorder offers great convenience and flexibility in recording real-time videos via the internet.

**iPOLiS**

### Features

- Record up to 32 audio / video streams
- Record up to 480fps at CIF resolution
- Record up to full 4CIF resolution
- Ability to view live display and play back recorded video on single channel
- User IP filtering
- Unlimited product registration

### MPEG-4/JPEG dual codec

The SNR-32A/16A/9A uses MPEG-4 and JPEG compression so that users can select a compression algorithm according to their circumstances. Users can select a resolution (4CIF, 2CIF, CIF), picture quality and frame rate variously according to traffic environment of network, so real-time monitoring is available.

MPEG-4                    JPEG

### Max. 480fps real-time recording, Various recording modes

High resolution images of maximum 480fps that network unit sends can be stored. It also supports a selection of recording modes such as 4CIF (704 x 480), 2CIF (704 x 240), CIF recording, normal, schedule, and event, motion detection etc., ensuring optimized network video recording.
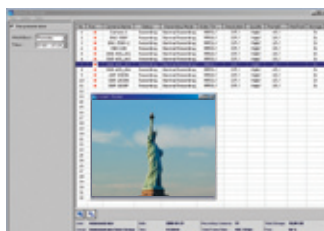
### Technical Specifications

| | | SNR-32A | SNR-16A | SNR-9A |
|---|---|---|---|---|
| Supported H/W | Supported Devices | Network Camera : SNC-1300/570, SND-560/460V, SNP-3300A/1000A Video Encoder : SNS-400/100 | | |
| | Max. Register Device | No limit | | |
| Performance | Max. Record Channel | 32 | 16 | 9 |
| | Recording | 480 CIF | 480 CIF | 270 CIF |
| | Playback | 5 Client | 5 Client | 5 Client |
| Recording | Video Codec | MPEG-4, JPEG | | |
| | Audio Codec | ADPCM | | |
| | Resolution | 4CIF, 2CIF, CIF | | |
| | Quality | 5 level | | |
| | Pre/Post Recording Time | 60sec / 60sec | | |
| | Recording Mode | Continue, Schedule, MD, Event, Compound | | |
| | Set up | Configurable frame rate for each CH (1~30(N),1~25(P)), Channel independent set up | | |
| Component Search | Camera / Sensor / Relay | 32 / 32 / 32 | 16 / 16 / 16 | 9 / 9 / 9 |
| | Search Mode | Time/Calendar, Timeline, Thumbnail | | |
| Storage | Space Configuration (Each Drive) | Supported | | |
| | Space Shortage Warning | Supported | | |
| | NAS (Network Attached Storage) | Supported (External) | | |
| User | User Level | 2 | | |
| | Local (Remote) User | Group : 1, User : No limit | | |
| | IP Filtering (Remote user) | Supported | | |
| S/W Status | | Record, Record schedule, Storage, Live/Recording image (Instant viewer) | | |
| Data Security Technology | Login Packet Encryption | Supported | | |
| System | | System auto recovery, Auto power-on record | | |
| System Specifications | | CPU : Intel Core2Duo E8400, RAM : 2GB above Video memory : 256MB, HDD : 250GB OS : Window XP SP2, Windows 2003 SP2 DirectX 9.0 above, Microsoft .Net Framework 2 Microsoft SQL Server 2005 | | |

* The entire items are not supported in every device. Some items are not supported in certain devices.

### System Configuration

Video Capture (Analog)
Network Camera
SNR-32A/16A/9A
Recording Sever
NETWORK RECORDER
Video Encoder
Network
DVR
NETWORK MANAGER
SNM-64P

→ Analog Data
→ Recording Data
→ Live Data
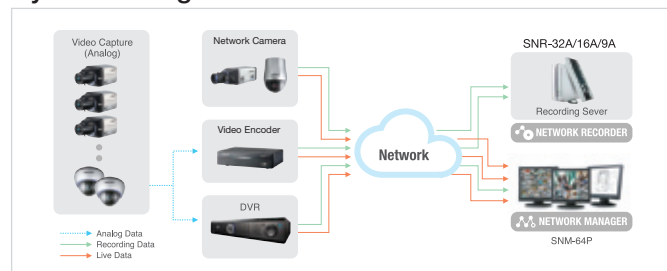
# CONTROLLER

## Samsung Digital Security Systems

**SAMSUNG TECHWIN**

**SAMSUNG**

# SCC-3100A

## System Controller for PTZ Dome Cameras, DVRs and Matrix Switchers

FC | CE

## Overview

The Samsung SCC-3100A is a keyboard controller capable of controlling up to 255 PTZ dome cameras, DVRs, matrix switchers and receivers simultaneously. It offers powerful system compatibility with multiple protocols. And its intuitive keypad, large LCD window and ergonomic design allows more ease and convenience of use.

## Features

- Control of both PTZ dome cameras, DVRs and matrix switchers
- Centralized control of up to 255 units from a single controller
- Up to 16 controllers may be connected to a system
- Ergonomic design and easy-to-use keypad
- 3D joystick control of PTZ functions
- Large character LCD display (20 x 4 lines)
- Multi-protocol support
- Included power supply : 12V DC, 700mA
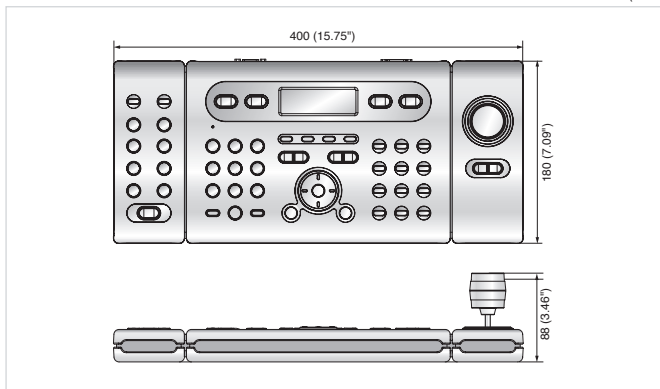
## Technical Specifications

| | | SCC-3100A |
|---|---|---|
| Included Power Supply | Input | 100V AC ~ 240V AC (50/60Hz) |
| | Output | 12V DC, 700mA |
| Connector | | 3 Port |
| LCD Display | | 20 x 4 Character LCD |
| PTZ Control | | Joystick (3-axis twist zoom) |
| Sub Controller | | Max. 16 unit connection |
| Compatible Hardware | PTZ Dome | Samsung Techwin PTZ Dome |
| | | Pelco-D/P, Panasonic (WV-CS854) |
| | | Samsung Electronics (SCC-643/641) |
| | DVR | SVR-3200/1680C/1660C/1645/960C/945/940/450 |
| | Receiver | SRX-100B |
| | Matrix | SMX-25632 |
| Control Capacity | | Max. 255 |
| Auto Surveillance | | Tour, Group, Swing, Preset etc. |
| | | Selection of PTZ, DVR : Each ID input |
| Communication | | RS-485/422 (Remote control 1.2Km above possibility) |
| RS-485/422 Spec. | Communication Set | Asynchronism serial, 1 Start bit, No parity, 1 Stop bit |
| | Transmission Method | Half duplex / Full duplex |
| | Baud Rate (bps) | 4,800 ~ 38,400bps (9,600bps Promotion) |
| | | Sub controller communication 57,600bps fixation |
| Operating Temperature | | 0℃ ~ +40℃ (+32°F ~ +104°F) |
| Operating Humidity | | 10% ~ 75% |
| Dimensions (WxHxD) | | 400 x 180 x 88mm (15.75" x 7.09" x 3.46") |
| Weight | | 1.5Kg (3.31 lb) (Without adapter) |
| Certifications | | FCC (Class A), CE (Class A) |

## Dimensions

Unit : mm (inch)



400 (15.75")
180 (7.09")
88 (3.46")

## System Configuration

* Junction box is provided with a keyboard.



PTZ Dome Camera + DVR : Max.255
Camera
Junction Box    Junction Box
Master Controller    Slave Controller    Slave Controller
Controller : Max.16

PTZ Dome Camera : Max.16
DVR : Max.255
SVR-1680C    SVR-1680C
Junction Box    Junction Box
Master Controller    Slave Controller    Slave Controller
Controller : Max.16

— Link Cable
— Control Line : RS-485/422
— Video Line

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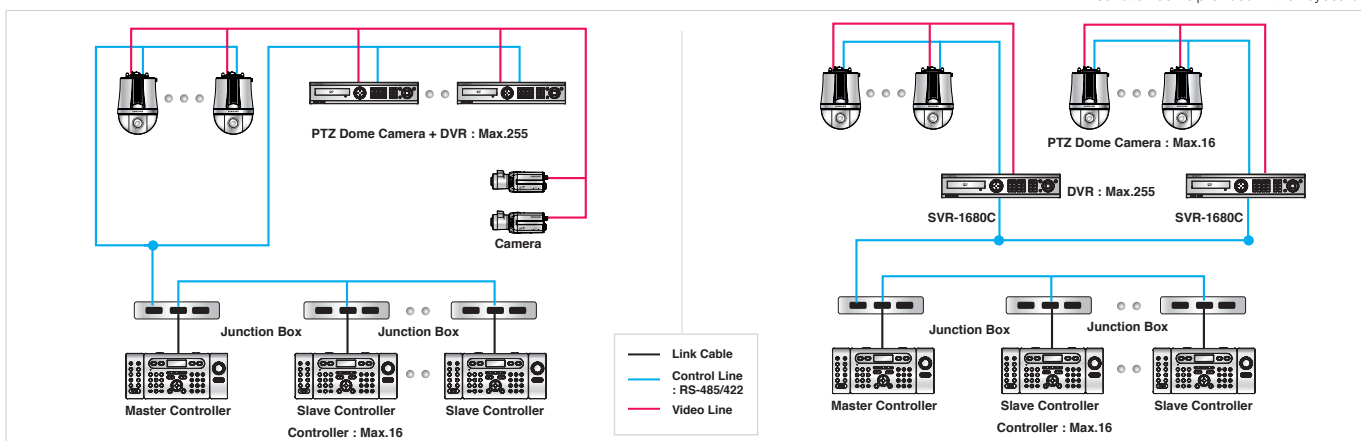
# SCC-1000

## PTZ Control Keyboard

## Overview

The SCC-1000 lets the operator have simultaneously control of up to 255 PTZ cameras. It offers superior system compatibility with support for multiple protocols.

## Features

- Controls up to 255 PTZ cameras
- Superior system compatibility : Multi protocols supports
- OSD Menu, 3D joystick control
- RS-485 and RS-422 Compatibility

## Dimensions

Unit : mm (inch)



280 (10.63")

100 (3.94")
55 (2.17")

280 (10.63")

180 (7.09")
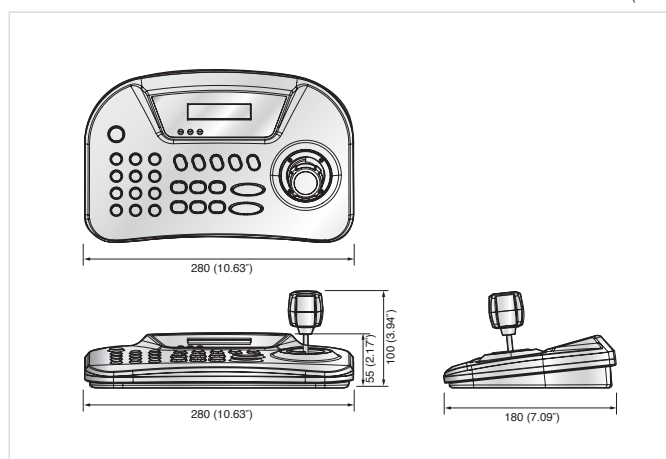
## Technical Specifications

| | | SCC-1000 |
|---|---|---|
| LCD Display | | 16 x 2 Character LCD |
| Speed Control | | Joystick (3-axis Twist Zoom) |
| Compatible Hardware | PTZ Dome | Samsung Techwin PTZ Dome |
| | | PELCO-D/P, Panasonic, Vicon, AD, Honeywell, Samsung Electronics |
| | Zoom Camera | SDZ-375/370 |
| | Receiver | SRX-100B |
| Control Capacity | | Up to 255 Cameras (Suitable for Mid-, Large-size System) |
| Communications | Standards | RS-485 / RS-422 (Remote Control : 1Km) |
| | Transfer Speed | 2,400 ~ 57,600bps |
| Voltage | | 12V DC, 140mA |
| Operating Temperature | | 0°C ~ +45°C (+32°F ~ +113°F) |
| Operating Humidity | | 10 ~ 70% |
| Dimensions (WxHxD) | | 280 x 180 x 100mm (10.63" x 7.09" x 3.94") |
| Weight | | Approx. 0.7Kg (1.54 lb) (Without Adapter) |

## System Configuration



1        2        3                 255

SPD-3750

MONITOR

SCC-1000

— Video Line
— Control Line : RS-485/422

CONTROLLER

FIRST PRINT 9-2009
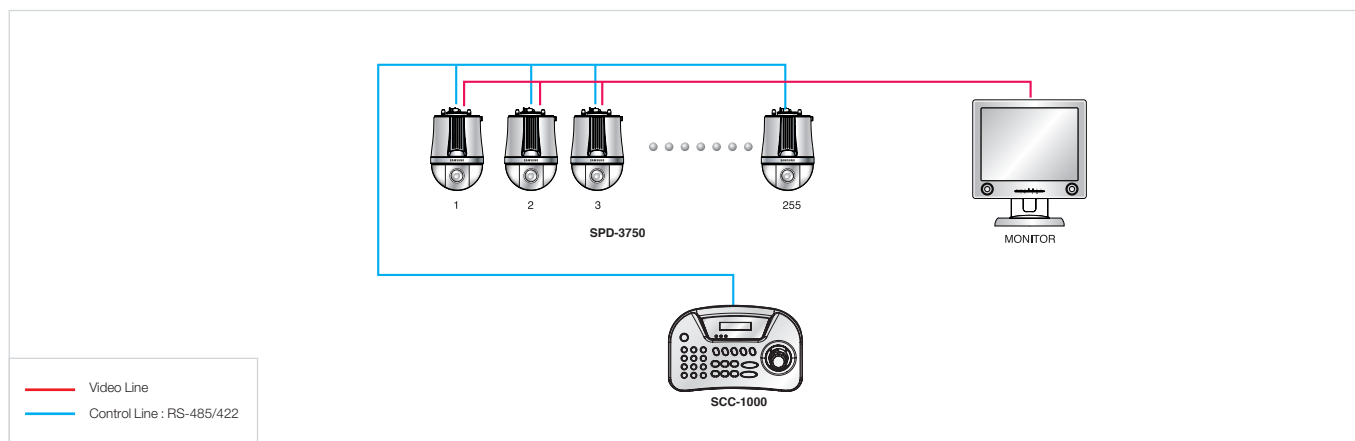
# SDQ-420

## Dual Color Quad Switcher

### Overview

The SDQ-420 is a dual color quad that can receive a maximum of 8 cameras and display 4 cameras at a time. The unit provides multiple screens in real time display modes with high image resolution and individual freeze function. It is a powerful and cost effective device that can be used with quick OSD functions.

### Features

- Two page quad switching (8 Channels camera input)
- High resolution image (720 x 576)
- Multiple displays and action on alarm support
- Individual freeze function
- Adjustable date & time display
- Enhanced record and playback with 2X digital zoom
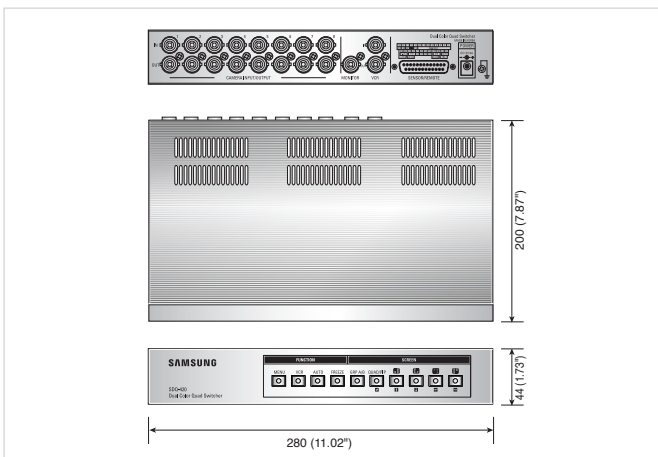
### Technical Specifications

| | SDQ-420 |
|---|---|
| Power Source | 12V DC / 4A |
| Power Consumption | 10W (Approximately) |
| Video Input | 8 BNC |
| Looping Output | BNC / Switchable termination / 75 or Hi-z |
| Monitor Output | 1 BNC |
| VCR In / Output | 2 BNC |
| Alarm Input | 8 Channels / 25Pins D-sub |
| Alarm Output | Relay contact rating (Resistive) - 0.5A 120V AC or 1A 24V DC |
| Alarm Duration | Programmable 1 to 99sec / Default 10sec |
| Power Connection | DC Jack |
| Video Standard | 625Lines, 50field/sec |
| Video Resolution | 720(H) x 576(V)pixels full screen |
| Digital Memory | 8 Bit luma / 256 Shades of gray, 24 Bit luma / 16 Million colors |
| Display Rate | True real time, 30 frames per second |
| Quad Display | 360(H) x 288(V)pixels quad screen |
| Monitor Output | 1.0Vp-p composite, 75 |
| VCR Input | 1.0Vp-p composite |
| Digital Zoom | 2X Digital zoom for playback |
| Operating Temperature | 0°C ~ +50°C (+32°F ~ +122°F) |
| Storage Temperature | -40°C ~ +60°C (-40°F ~ +140°F) |
| Operating Humidity | 10% ~ 90% (Non-condensing) |
| Dimensions (WxHxD) | 280 x 44 x 200mm (11.02" x 1.73" x 7.87") |
| Weight | 1.5Kg (3.31 lb) |

### Dimensions

Unit : mm (inch)



200 (7.87")
44 (1.73")
280 (11.02")

### System Configuration



CAMERA (1~16)   CAMERA (1~16)   CAMERA (1~16)   CAMERA (1~16)

CH1   CH4   DVR   CH5   CH8

RS-232/RS-485

Controller

Group A   Group B

Group A   Group B
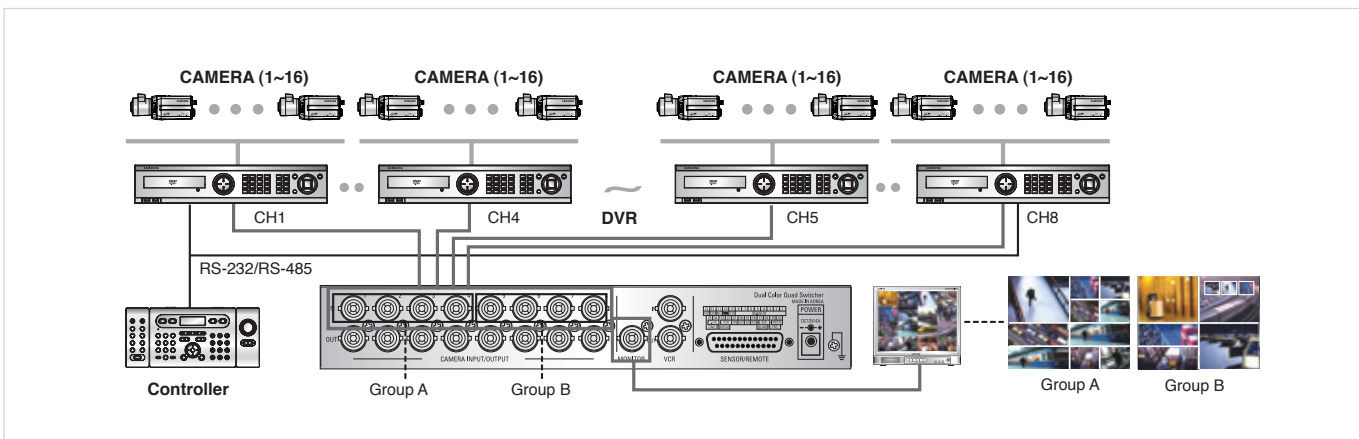
# SMX-25632

## 256 Input / 32 Output Video Matrix Switcher

CE

## Overview

The SMX-25632 matrix switcher provides switching and control for up to 256 video inputs and 32 monitor outputs using SME-25632 matrix extension bays. The SMX-25632 can be controlled from the SCC-3100A system controller. It ensures that users can produce reliable and efficient management of medium to large-scale video security systems.

## Features

- Max. 256 camera input, 32 monitor output
  Connects up to 3 extension units (SME-25632), 16 video cards (SMV-25632)
- Supports 32 alphabet letters
- Controllable by a system keyboard (SCC-3100A)
- Built-in power supply

## Dimensions

Unit : mm (inch)

### SMX-25632

430 (16.93")

350 (13.78")

265 (10.43")

### SME-25632

430 (16.93")

350 (13.78")

177 (6.97")

### SMV-25632

SMX-25632 CARD PCB (SMV-25632)

187 (7.36")

293.7 (11.56")
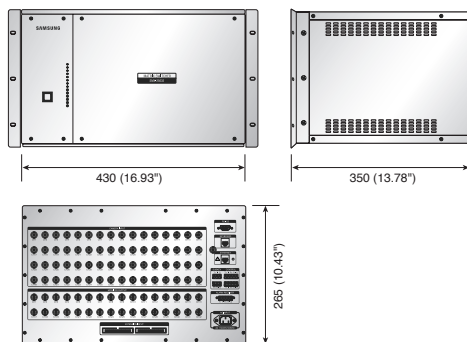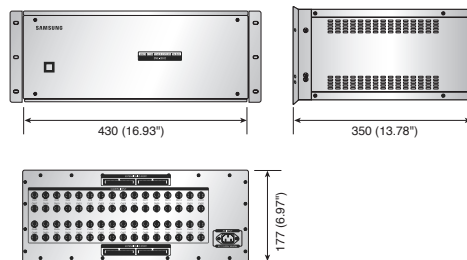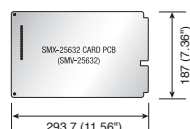
## Technical Specifications

### SMX-25632 (Matrix CPU)

| System | 16 Video card slots, Controller interface |
|---|---|
| Features | 256 x 32 Video matrix control |
| | Video extension unit connector (Up to 3 sets) |
| OSD | Displays 16 Korean characters or 32 alphabet letters, numbers, or symbols |
| | Date / Time display |
| Camera I/O | 64 Camera input, 32 Monitor output |
| | (Max. 32 monitor output with 16 video cards) |
| Communication | TTL Level |
| Power Consumption | Max. 120W |
| Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F) |
| Operating Humidity | 30% ~ 90% RH |
| Dimensions (WxHxD) | 430 x 256 x 350mm (16.93" x 10.08" x 13.78") |
| Weight | 15Kg (33.07 lb) |
| Certifications | CE (Class A) |

### SME-25632 (Matrix Extension Bay)

| Features | 64 Camera input control (Connectable up to 3 units) |
|---|---|
| Power Consumption | Max. 50W |
| Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F) |
| Operating Humidity | 30% ~ 90% RH |
| Dimensions (WxHxD) | 430 x 177 x 350mm (16.93" x 6.97" x 13.78") |
| Weight | 10Kg (22.05 lb) |
| Certifications | CE (Class A) |

### SMV-25632 (Matrix Video Card)

| Features | 2 Monitor output |
|---|---|
| | Time generator, I/D generator, Video I/O selector, Video sync correction |
| OSD | 32 Alphabet letters or 16 Korean characters (Combinations allowed) |
| | Freeze On / Off, Year / Month / Date / Hour / Minute / Second |
| Power Consumption | Max. 9W |
| Operating Temperature | 0°C ~ +40°C (+32°F ~ +104°F) |
| Operating Humidity | 30% ~ 90% RH |
| Dimensions (WxD) | 293.7 x 187mm (11.56" x 7.36") |
| Weight | 0.3Kg (0.66 lb) |

## System Configuration

Camera 1  Camera 2  Camera 3  Camera 256   Monitor 1  Monitor 2  Monitor 32

SMX-25632    SME-25632    SME-25632    SME-25632

Main Controller    Sub Controller 1    Sub Controller 15

Video Line
Control Line : RS-485/422

CONTROLLER
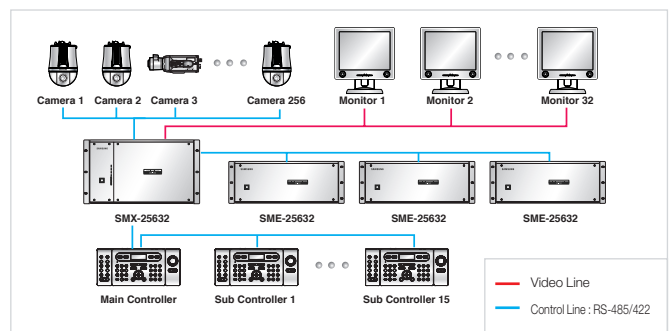
STM-42L

# MONITOR
## Samsung Digital Security Systems

**SAMSUNG TECHWIN**    **SAMSUNG**

# MONITOR SELECTION

| | STM-42L/32L | STM-19LA/17LA | STM-19LM/17LM | STM-19LP/17LP |
|---|---|---|---|---|
| Color System | NTSC / PAL | NTSC / PAL | NTSC / PAL | NTSC / PAL |
| Video In | 2 BNC, 1 S-Video, DVI-D, HDMI, Trigger | 2 BNC, 1 S-Video, 1 VGA | 2 BNC, 1 VGA | 1 VGA |
| Video Out | 2 BNC | 2 BNC | 2 BNC | N / A |
| Audio In | 3.5mm stereo input, 2 RCA | 3.5mm stereo input, 2 RCA | 3.5mm stereo input, 2 RCA | N / A |
| Audio Out | 2 built-in speakers | 2 built-in speakers | 2 built-in speakers | N / A |
| Type | 42", 32" TFT-LCD | 19", 17" TFT-LCD | 19", 17" TFT-LCD | 19", 17" TFT-LCD |
| Resolution | WXGA | SXGA | SXGA | SXGA |
| Power Source | STM-42L : LVDS-VCC 12V DC<br>    AUDIO-VCC 12V DC<br>    Inverter 24V DC, 12V DC<br>STM-32L : LVDS-VCC 12V DC<br>    AUDIO-VCC 12V DC<br>    Inverter 24V DC, 8V DC, 5V DC, 3.3V DC | 12V DC, 4.16A<br>(Power supply Included) | 12V DC, 4A<br>(Power supply Included) | 12V DC, 4A |
| Dimensions | STM-42L : 1,063(W) x 730(H) x 120(D)mm<br>    41.85"(W) x 28.74"(H) x 4.72"(D)<br>STM-32L : 792(W) x 543.3(H) x 103.5(D)mm<br>    31.18"(W) x 21.39"(H) x 4.07"(D) | STM-19LA : 430(W) x 421(H) x 200(D)mm<br>    16.93"(W) x 16.57"(H) x 7.87"(D)<br>STM-17LA : 382(W) x 390(H) x 200(D)mm<br>    15.04"(W) x 15.35"(H) x 7.87"(D) | STM-19LM : 430(W) x 421(H) x 200(D)mm<br>    16.93"(W) x 16.57"(H) x 7.87"(D)<br>STM-17LM : 382(W) x 390(H) x 200(D)mm<br>    15.04"(W) x 15.35"(H) x 7.87"(D) | STM-19LP : 430(W) x 421(H) x 200(D)mm<br>    16.93"(W) x 16.57"(H) x 7.87"(D)<br>STM-17LP : 382(W) x 390(H) x 200(D)mm<br>    15.04"(W) x 15.35"(H) x 7.87"(D) |
| Weight | STM-42L : 31Kg (68.34 lb)<br>STM-32L : 22.6Kg (49.82 lb) | STM-19LA : 6.61Kg (14.57 lb)<br>STM-17LA : 6.2Kg (13.67 lb) | STM-19LM : 6.43Kg (14.18 lb)<br>STM-17LM : 5.57Kg (12.28 lb) | STM-19LP : 6.5Kg (14.33 lb)<br>STM-17LP : 5.85Kg (12.9 lb) |

MONITOR

# MONITOR TERMS & FEATURES



## Vivid Images as if they were in front of you...

If you are using high resolution Samsung Techwin cameras and DVRs, the monitors used in the system need to be capable of reproducing the added resolution. Samsung Techwin Monitors are engineered to match the high performance of our cameras and recording systems.

Samsung Techwin has a complete LCD monitor range to cover all security applications. To assist in choosing the correct monitor the range is divided into four distinct product families. Large-scale security systems and central monitoring stations are covered by the STM-42L and STM-32L models. The LA series of professional fully featured monitors are ideal for multi-display control rooms, while the LM series of utility monitors are designed for a wide variety of general applications. For cost conscious applications, the LP series of standard monitors are the ideal choice.

All Samsung Techwin's LCD monitors offer outstanding video performance, exceptionally high-resolution of SXGA (1280 x 1024) and WXGA (1366 x 768), superior contrast ratios and fast response times making them ideally suited for high-performance DVR applications. All monitors featured in our product line-up automatically select the input voltage, frequency and television standard (NTSC / PAL).

## Resolution

A measure of the ability of a camera or television system to reproduce detail. Typically refers to the number of picture elements that can be reproduced with good definition.

## S-Video

Super Video is both a tape recording standard and a video transmission and interface standard. It offers much better horizontal resolution up to 400TV lines. This is mainly due to the color separation techniques. S-Video is usually associated with Y/C separated signals.

## Contrast Ratio

Contrast ratio refers to the difference in light intensity between the whitest white and blackest black the monitor is able to produce. The higher the ratio, the better the color representation of the monitor. e.g. a 500:1 contrast ratio is significantly better than a 150:1 contrast ratio. A higher contrast ratio also means the monitor is better able to differentiate fine details in color.

## Response Time

Response time refers to the amount of time it takes for an liquid crystal cell (pixel) to switch from active to non-active, and is measured in milliseconds (ms). This is very important for applications that require fast moving (changing) images like video playback. An average LCD monitor has a response time of 25-40ms, which will result in significant image trailing while watching videos.

## Viewing Angle

Viewing Angle describes the maximum angle at which an LCD monitor can reliably be viewed. Viewing angles have greatly improved over the years, and now nearly all LCD monitors support viewing angles of 150 degrees and above, which is more than acceptable in ordinary use. The best LCD monitors offer 160 degree viewing angle, making them nearly as good as CRT monitors.

# STM-42L/32L

## 42″, 32″ TFT-LCD Color Monitor

## Overview

Samsung Techwin's newest STM-42L and STM-32L monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 500cd/m², contrast ratio of up to 3,000 : 1 and a response time of 8ms. Moreover, these wide screen, slim line units provide outstanding quality images. Both LCD models feature real glass screens protecting the LCD panels, making them easy to clean without scratching.

STM-32L

STM-42L

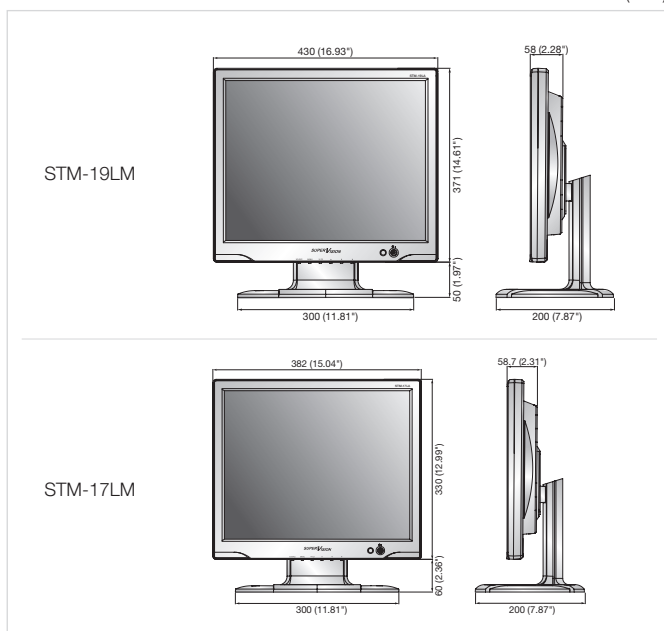| 42″/32″ | BNC VGA | 3000:1 High Contrast Ratio | 1366 x 768 60Hz Resolution | 500 cd/m² High Brightness | 5ms/8ms Response Time | Glass Protecting Glass | Built-in Speakers |

## Features

- 1,366 x 768@60Hz resolution
- 1,100 : 1 High contrast ratio (STM-42L)
  3,000 : 1 High contrast ratio (STM-32L)
- 500cd/m² High brightness
- 5ms Response time (STM-42L)
  8ms Response time (STM-32L)
- 2 BNC loop through, S-Video with loop-through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel
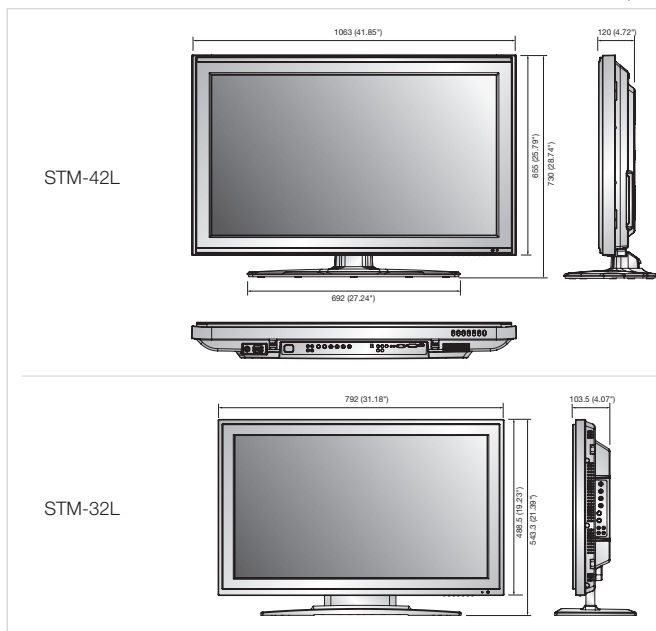
## Technical Specifications

| | | STM-42L | STM-32L |
|---|---|---|---|
| Display | Screen Size | 42" | 32" |
| | Pixel Type | Active Matrix TFT | |
| | Max. Resolution | 1,366 x 768@60Hz | |
| | Pixel Pitch | 0.227 x 0.681mm (0.009" x 0.03") | 0.17 x 0.51mm (0.0007" x 0.02") |
| | Brightness | 500cd/m² | |
| | Contrast Ratio | 1,100 : 1 | 3,000 : 1 |
| | Aspect Ratio | 16 : 9 | |
| | Viewing Angle (H/V) | 178°/178° | |
| | Display Color | 16.7Million | |
| | Response Time | 5ms | 8ms |
| | Video System | NTSC / PAL | |
| | Frequency (H/V) | 45 ~ 50 KHz / 47 ~ 63 KHz | 45 ~ 52KHz / 48 ~ 66KHz |
| Audio | Built in Speakers | 2W x 2 | |
| Interface | Video In / Out | 2 / 2 (BNC type) | |
| | S-Video In / Out | (Y/C, Loop-Through Out) 1 | |
| | RGB In | (15Pin D-Sub) 1 | |
| | DVI In | 1 | |
| | HDMI | 1 | |
| | Trigger | 1 | |
| | Audio In / Out | (RCA Type) 2 | |
| | PC Stereo In | 1 | |
| Controller | Transmitter Remote Control | Yes | |
| Features | PIP (Picture in Picture) | Yes | |
| | PBP (Picture by Picture) | Yes | |
| | Filter Type | 3D Comfilter / DeInterace | |
| | LCD Protection Glass | Yes | |
| | Rack Mountable Kit | Optional | |
| | Multi-lingual Language | English, Spanish, French, German, Italian, Portuguese, Dutch | |
| | VESA™ DDC Compatible | Yes | |
| Dimensions | Outline Dimension (With Stand) | 1063 x 730 x 304mm (41.85" x 28.74" x 11.99") | 792 x 488.5 x 226.6mm (28.82" x 19.23" x 8.92") |
| | Outline Dimension (Without Stand) | 1063 x 655 x 120mm (41.85" x 27.89" x 4.72") | 792 x 543.3 x 103.5mm (28.82" x 20.42" x 4.07") |
| | Net Weight | 31Kg (68.3lbs) | 22.6Kg (49.8lbs) |
| | Weight | 35Kg (77.2lbs) | 24.6Kg (54.2lbs) |
| Cabinet Mounts | Cabinet Finish / Tilt Stand | Black / Yes | |
| | Mounts Size | 130 x 130 x 634mm (BS M4 x 10mm Screw) | 200 x 200mm (BS M6 x 16mm Screw) |
| Electrical | Regulation | TUV NRTL (=UL), CB, FCC (A), CE-Emc (LVD) | |
| | Consumption | Max. 230W | Max. 150W |
| | Electrical Ratings | AC100 ~ 240V (50/60Hz) | |
| | Operating Temperature | 0 ~ +40°C (+32°F ~ +104°F) | |

## Dimensions

Unit : mm (inch)

1063 (41.85")   120 (4.72")
655 (25.79")   730 (28.74")

STM-42L

692 (27.24")

792 (31.18")   103.5 (4.07")
488.5 (19.23")   543.3 (21.39")

STM-32L

## Optional Accessory

Wall Mount

630 (24.8")   115 (4.53")
300 (11.81")

STB-42LM

298.5 (117.62")   49 (1.93")
229 (9.02")
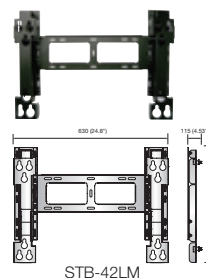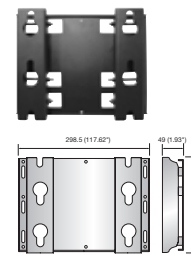
STB-32LM

MONITOR

# STM-19LA/17LA

## 19″, 17″ TFT-LCD Color Monitor

FC | cULus LISTED | CE

### Overview

Samsung Techwin's new STM-19LA and STM-17LA monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m², contrast ratio of up to 1,000 : 1 and a response time of 5ms. Moreover, these compact, slim units can be used standalone with their own desk stand or can be wall mounted by using our optional STM-LM wall mount. Both LCD models feature real glass screens protecting over the LCD panels, making them easy to clean without scratching.

19"/17" | BNC VGA | 1000:1 High Contrast Ratio | 1280x1024 60Hz Resolution | 300cd/m² High Brightness | 5ms Response Time | Glass Protecting Glass | Built-in Speakers
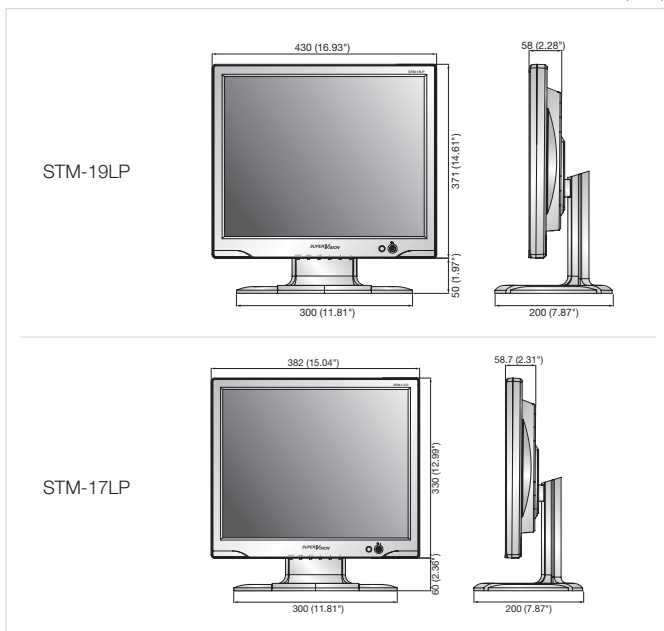
### Features

- 1,280 x 1,024@60Hz resolution
- 800 : 1 High contrast ratio (STM-19LA)
  1,000 : 1 High contrast ratio (STM-17LA)
- 250cd/m² High brightness (STM-19LA)
  300cd/m² High brightness (STM-17LA)
- 5ms Response time
- 2 BNC loop through, S-Video with loop-through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel
- Included power supply : 12V DC, 4.16A
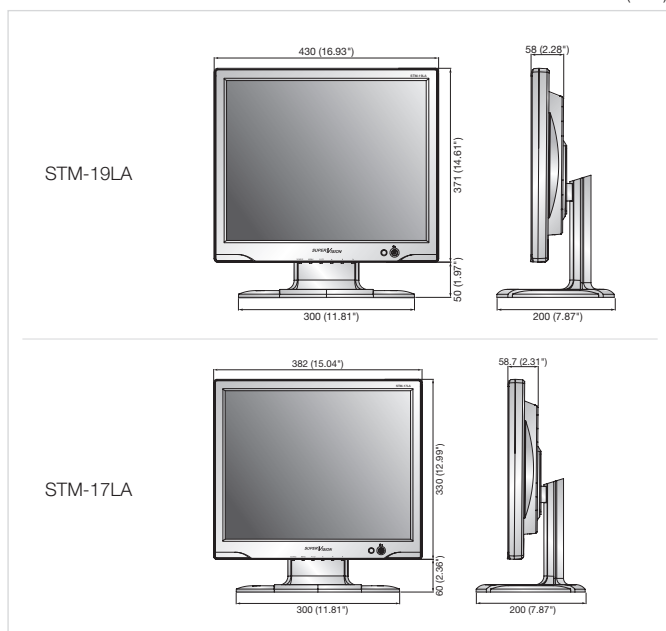
### Technical Specifications

| | | STM-19LA | STM-17LA |
|---|---|---|---|
| Display | Screen Size | 19" | 17" |
| | Pixel Type | Active Matrix TFT | |
| | Max. Resolution | 1,280 x 1,024@60Hz | |
| | Pixel Pitch | 0.294 x 0.294mm (0.012" x 0.012") | 0.264 x 0.264mm (0.01" x 0.01") |
| | Brightness | 250cd/m² | 300cd/m² |
| | Contrast Ratio | 800 : 1 | 1,000 : 1 |
| | Aspect Ratio | 5 : 4 | |
| | Viewing Angle (H/V) | 160° / 160° | |
| | Display Color | 16.7Million | |
| | Response Time | 5ms | |
| | Video System | NTSC / PAL | |
| | Frequency (H/V) | 31 ~ 64KHz / 50 ~ 75Hz | |
| Audio | Built in Speakers | 2W x 2 | |
| Interface | Video In / Out | 2 / 2 (BNC type) | |
| | RGB In | 1 (15Pin D-Sub) | |
| | Audio In / Out | 2 (RCA type) | |
| | PC Stereo In | 1 | |
| Controller | Transmitter Remote Control | Yes | |
| Features | LCD Protection Glass | Yes | |
| | Rack Mountable Kit | Optional | |
| | Multi-lingual Language | English, Spanish, French, German, Italian, Portuguese, Dutch | |
| | VESA™ DDC Compatible | Yes | |
| Dimensions | Outline Dimension (With Stand) | 430 x 421 x 200mm (16.93" x 16.57" x 7.87") | 382 x 390 x 200mm (15.04" x 15.35" x 7.87") |
| | Outline Dimension (Without Stand) | 430 x 371 x 58mm (16.93" x 14.61" x 2.28") | 382 x 330 x 58.7mm (15.04" x 12.99" x 2.31") |
| | Packing Dimension | 490 x 506 x 225mm (19.29" x 19.92" x 8.86") | 436 x 476 x 225mm (17.17" x 18.74" x 8.86") |
| | Weight | 6.61Kg (14.57 lb) | 6.2Kg (13.67 lb) |
| Cabinet | Cabinet Finish / Tilt Stand | Black / Yes | |
| Mounts | Mounts Size | VESA 100 x 100mm (3.937" x 3.937") | |
| Electrical | Consumption | Max. 42W | Max. 36W |
| | Electrical Ratings | 12V DC / 4.16A | |
| | Operating Temperature | 0 ~ +40°C (+32°F ~ +104°F) | |
| | Certifications | FCC (Class A), UL/cUL listed, CE (Class A) | |

### Dimensions

Unit : mm (inch)

STM-19LA

430 (16.93")
58 (2.28")
371 (14.61")
60 (1.97")
300 (11.81")
200 (7.87")

STM-17LA

382 (15.04")
58.7 (2.31")
330 (12.99")
60 (2.36")
300 (11.81")
200 (7.87")

### Optional Accessory

110 (4.33")
216.5 (8.52")
186 (7.32")
140 (5.51")
48 (1.89")
216.5 (8.52")
140 (5.51")
• : anchors insertion position

Wall Mount (STB-LM)

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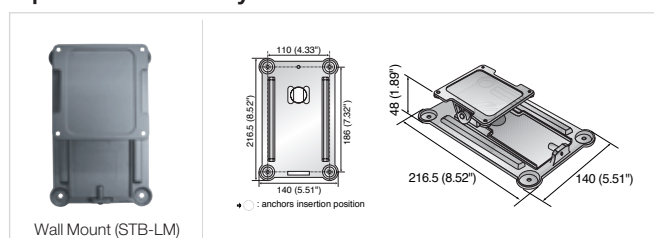
# STM-19LM/17LM

## 19″, 17″ TFT-LCD Color Monitor

FC | cULus LISTED | CE | CCC

### Overview

Samsung Techwin's new STM-19LM and STM-17LM monitors are a fully featured solution for professional surveillance applications. These units deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m$^2$, contrast ratio of up to 1,000 : 1 and a response time of 5ms. Moreover, these compact, slim units can be used standalone with their own desk stand or can be wall mounted by using our optional STM-LM wall mount. Both LCD models feature real glass screens protecting over the LCD panels, making them easy to clean without scratching.

| 19"/17" | BNC/VGA | 1000:1 High Contrast Ratio | 1280 x 1024 60Hz Resolution | 300cd/m² High Brightness | 5ms Response Time | Glass Protecting Glass | Built-in Speakers |

### Features

- 1,280 x 1,024@60Hz resolution
- 800 : 1 High contrast ratio (STM-19LM)
  1,000 : 1 High contrast ratio (STM-17LM)
- 250cd/m$^2$ High brightness (STM-19LM)
  300cd/m$^2$ High brightness (STM-17LM)
- 5ms Response time
- 2 BNC loop through, VGA inputs
- Built-in speakers
- Protective glass over LCD panel
- Included power supply : 12V DC, 4A

### Technical Specifications

| | | STM-19LM | STM-17LM |
|---|---|---|---|
| Display | Screen Size | 19" | 17" |
| | Pixel Type | Active Matrix TFT | |
| | Max. Resolution | 1,280 x 1,024@60Hz | |
| | Pixel Pitch | 0.294 x 0.294mm (0.012" x 0.012") | 0.264 x 0.264mm (0.01" x 0.01") |
| | Brightness | 250cd/m² | 300cd/m² |
| | Contrast Ratio | 800 : 1 | 1,000 : 1 |
| | Aspect Ratio | 5 : 4 | |
| | Viewing Angle (H/V) | 160° / 160° | |
| | Display Color | 16.7Million | |
| | Response Time | 5ms | |
| | Video System | NTSC / PAL | |
| | Frequency (H/V) | 31 ~ 82KHz / 50 ~ 77Hz | |
| Audio | Built in Speakers | 2W x 2 | |
| Interface | Video In / Out | 2 / 2 (BNC type) | |
| | RGB In | 1 (15Pin D-Sub) | |
| | Audio In / Out | 2 (RCA type) | |
| | PC Stereo In | 1 | |
| Controller | Transmitter Remote Control | Yes | |
| Features | LCD Protection Glass | Yes | |
| | Rack Mountable Kit | Optional | |
| | Multi-lingual Language | English, Spanish, French, Chinese | |
| | VESA™ DDC Compatible | Yes | |
| Dimensions | Outline Dimension (With Stand) | 430 x 421 x 200mm (16.93" x 16.57" x 7.87") | 382 x 390 x 200mm (15.04" x 15.35" x 7.87") |
| | Outline Dimension (Without Stand) | 430 x 371 x 58mm (16.93" x 14.61" x 2.28") | 382 x 330 x 58.7mm (15.04" x 12.99" x 2.31") |
| | Packing Dimension | 490 x 506 x 225mm (19.29" x 19.92" x 8.86") | 436 x 476 x 225mm (17.17" x 18.74" x 8.86") |
| | Weight | 6.43Kg (14.18 lb) | 5.57Kg (12.28 lb) |
| Cabinet | Cabinet Finish / Tilt Stand | Black / Yes | |
| Mounts | Mounts Size | VESA 100 x 100mm (3.937" x 3.937") | |
| Electrical | Consumption | Max. 42W | Max. 36W |
| | Electrical Ratings | 12V DC / 4A | |
| | Operating Temperature | 0 ~ +40°C (+32°F ~ +104°F) | |
| | Certifications | FCC (Class A), UL/cUL listed, CE (Class A), CCC | |

### Dimensions

Unit : mm (inch)

**STM-19LM**
430 (16.93")
371 (14.61")
60 (1.97")
300 (11.81")
58 (2.28")
200 (7.87")

**STM-17LM**
382 (15.04")
330 (12.99")
60 (2.36")
300 (11.81")
58.7 (2.31")
200 (7.87")

### Optional Accessory

110 (4.33")
216.5 (8.52")
186 (7.32")
140 (5.51")
48 (1.89")
216.5 (8.52")
140 (5.51")
□ : anchors insertion position

Wall Mount (STB-LM)
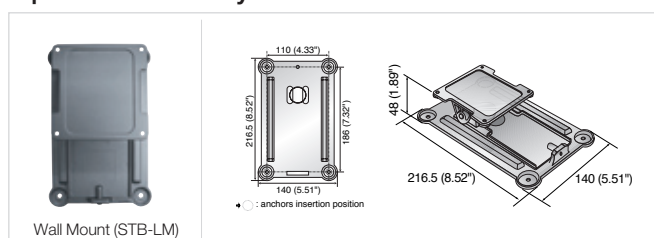
MONITOR

# STM-19LP/17LP

## 19″, 17″ TFT-LCD Monitor for DVRs

FC | cULus LISTED | CE

## Overview

Samsung Techwin's STM-19LP and STM-17LP monitors deliver exceptionally sharp, crisp pictures with a brightness of 300cd/m², a contrast ratio of 1,000 : 1 and a response time of 5ms. The LCDs are slim, lightweight, and require less power and space. Moreover, these units can be installed on a wall with optional wall mounts (STB-LM) with ease enabling high space efficiency. Both LCD models feature real glass screens protecting the LCD panels, making them easy to clean without scratching.

| 19"/17" | BNC/VGA | 1000:1 High Contrast Ratio | 1280 x 1024 60Hz Resolution | 300 cd/m² High Brightness | 5ms Response Time | Glass Protecting Glass |

## Features

- 1,280 x 1,024@60Hz resolution
- 800 : 1 High contrast ratio (STM-19LP)
  1,000 : 1 High contrast ratio (STM-17LP)
- 250cd/m² High brightness (STM-19LP)
  300cd/m² High brightness (STM-17LP)
- 5ms Response time
- RGB Input support for DVRs
- Protecting glass
- Included power supply : 12V DC, 4A

## Dimensions

Unit : mm (inch)

STM-19LP

430 (16.93")
371 (14.61")
50 (1.97")
300 (11.81")
58 (2.28")
200 (7.87")

STM-17LP

382 (15.04")
330 (12.99")
60 (2.36")
300 (11.81")
58.7 (2.31")
200 (7.87")

## Technical Specifications

| | | STM-19LP | STM-17LP |
|---|---|---|---|
| Display | Screen Size | 19" | 17" |
| | Pixel Type | Active Matrix TFT | |
| | Max. Resolution | 1,280 x 1,024@60Hz | |
| | Pixel Pitch | 0.294 x 0.294mm (0.012" x 0.012") | 0.264 x 0.264mm (0.01" x 0.01") |
| | Brightness | 250cd/m² | 300cd/m² |
| | Contrast Ratio | 800 : 1 | 1,000 : 1 |
| | Aspect Ratio | 5 : 4 | |
| | Viewing Angle (H/V) | 160° / 160° | |
| | Display Color | 16.7Million | |
| | Response Time | 5ms | |
| | Video System | NTSC / PAL | |
| | Frequency (H/V) | 31 ~ 82KHz / 50 ~ 77Hz | |
| Audio | Built in Speakers | 2W x 2 | |
| Interface | RGB In | 1 (15Pin D-Sub) | |
| Controller | Transmitter Remote Control | Yes | |
| Features | LCD Protection Glass | Yes | |
| | Rack Mountable Kit | Optional | |
| | Multi-lingual Language | English, Spanish, French, German, Korean | |
| | VESA™ DDC Compatible | Yes | |
| Dimensions | Outline Dimension (With Stand) | 430 x 421 x 200mm (16.93" x 16.57" x 7.87") | 382 x 390 x 200mm (15.04" x 15.35" x 7.87") |
| | Outline Dimension (Without Stand) | 430 x 371 x 58mm (16.93" x 14.61" x 2.28") | 382 x 330 x 58.7mm (15.04" x 12.99" x 2.31") |
| | Packing Dimension | 490 x 506 x 225mm (19.29" x 19.92" x 8.86") | 436 x 476 x 225mm (17.17" x 18.74" x 8.86") |
| | Weight | 6.5Kg (14.33 lb) | 5.85Kg (12.9 lb) |
| Cabinet | Cabinet Finish / Tilt Stand | Black / Yes | |
| Mounts | Mounts Size | VESA 100 x 100mm (3.937" x 3.937") | |
| Electrical | Consumption | Max. 42W | Max. 36W |
| | Electrical Ratings | 12V DC / 4A | |
| | Operating Temperature | 0 ~ +40°C (+32°F ~ +104°F) | |
| | Certifications | FCC (Class A), UL/cUL listed, CE (Class A) | |

## Optional Accessory

110 (4.33")
216.5 (8.52")
186 (7.32")
140 (5.51")
: anchors insertion position

48 (1.89")
216.5 (8.52")
140 (5.51")

Wall Mount (STB-LM)

# PRODUCT INDEX

Samsung Digital Security Systems

Design and specifications are subject to change without notice.

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I.H-0911